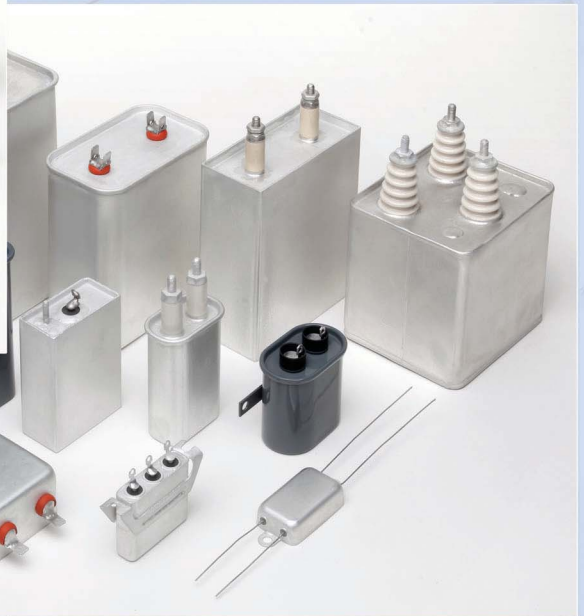


ARIZONA CAPACITORS



TYPICAL APPLICATIONS:

- By-Pass • Impulse Generators
- DC Filtering • R-C Networks



FILM CAPACITORS



- Ferro Resonant • Audio
- Voltage Multiplier • Matched Sets
- Spike Suppression • Motor Start
- Pulse Discharge • Power Supplies



Quality Standards:

- ISO 9001:2008 Registered
- MIL-STD-790 Military Approved
- RoHS Compliant & Non-RoHS Compliant

Major Industries We Serve:

- Railroad
- Audio & Communications
- Power Generation & Distribution
- Medical Equipment
- Motor & Pump Manufacturers
- Aerospace & Aircraft
- Automotive
- Electronic Test & Controls
- Stocking Distributors

TYPICAL APPLICATIONS:

- By-Pass • Impulse Generators
- DC Filtering • R-C Networks

- Ferro Resonant • Audio
- Voltage Multiplier • Matched Sets
- Spike Suppression • Motor Start
- Pulse Discharge • Power Supplies



ARIZONA CAPACITORS

About Arizona Capacitors, Inc.

Arizona Capacitors, LLC was recently acquired by Electro Technik Industries, Inc., of Largo, Florida and now operates as Arizona Capacitors, Inc. Electro Technik is a holding company which operates various subsidiaries in the magnetics, microwave, resistive, and capacitive industries.

Prior to this, Arizona Capacitors, LLC acquired Goguen Industries of Arizona on December 31, 2002. Arizona Capacitors was formerly the West Cap of Arizona division of San Fernando Electric Company and was originally founded in 1952. It has been in its present location since 1990 and operated for nearly thirty years in the West Cap property in Tucson.

Our Tucson, Arizona facility is located on two acres and occupies over 10,000 square feet of manufacturing and office space. We are located less than one mile from the Tucson International Airport. Many of our engineered capacitor and filter drawings for military and private industry components date back to the 1950's. We have very competitive labor rates and a well trained quality conscious work force.

ISO 9001:2008 REGISTERED

Phone: 520.573.0221
Fax: 520.573.0520

**ARIZONA
CAPACITORS**
3151 EAST DREXEL ROAD, TUCSON, AZ 85706





ARIZONA CAPACITORS

PRODUCT CAPABILITIES

DIELECTRICS:

Polyester
Metalized Polyester
Polypropylene
Metalized Polypropylene

Polycarbonate
Metalized Polycarbonate
Polystyrene
Kraft Paper

Teflon
Combined Dielectrics
K-Film

CONFIGURATIONS:

Wrap & Fill
Epoxy Dipped
Preformed Case
Molded

Ceramic Tubular
Phenolic
Bathtub
Tubular Hermetic

Rectangular Hermetic
Welded Case
PVC Tublar
Glass Tubular

TYPICAL APPLICATIONS:

By-Pass
R-C Networks
Matched Sets
Pulse Discharge

Impulse Generators
Ferro Resonant
Laser
H.I.D. Lighting

DC Filtering
Voltage Multiplier
Spike Suppression
Power Supplies

CAPACITANCE RANGES:

Capacitance ranges from 50 pf to 5000 μ F are available. Standard tolerance is $\pm 10\%$, however, tolerances to $\pm .25\%$ are available. Contact factory for details.

VOLTAGE RANGES:

Voltage Ranges from 30 to 250 KVDC. AC voltages up to 50 KV and 100 KHz are available. Contact factory for details.

SPECIAL CONSIDERATIONS:

For special applications, electrical parameters, environmental requirements, or special packaging needs, contact factory for details.

ISO 9001:2008 REGISTERED

Phone: 520.573.0221
Fax: 520.573.0520

**ARIZONA
CAPACITORS** 
3151 EAST DREXEL ROAD, TUCSON, AZ 85706 ELECTRO TECHNIK



TABLE of CONTENTS

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PAPER AND FOIL

TYPES

- 15, 17 - Case Grounded
- 16, 18 - Case Floating

TOLERANCE

W	±1%
U	±2%
J	±5%
K	±10%
M	±20%

VOLTAGE

1	100 VDC
2	200 VDC
3	300 VDC
4	400 VDC
6	600 VDC
10	1000 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

MODELS

Arizona Capacitor's (AZ-CAP) hermetically sealed tubular capacitors are available in optional mounting and terminal configurations. See detailed "Mounting & Terminal Specification Sheet".

LEADS

Standard lead are solid wire, 60/40 solder dipped for superior solderability.

CASE DIA.	AWG	LEAD MATERIAL
.175 & .195	24	Oxygen Free Copper
.235 & .312	22	Oxygen Free Copper
.400 & UP	20	Copper Clad Steel

Weldable and solderable "dumet" leads, which consist of gold-plated copper-clad, nickel-iron core wire, are available by adding the prefix "D" to the AZ-CAP part number.

Weldable and solderable "NICKEL" leads with 60/40 solder dipped finish are available by adding the prefix "N" to the AZ-CAP part number.

CHARACTERISTICS

AZ-CAP type 16 & 18 capacitors meet or exceed the requirements of MIL-C-25, Characteristic "K".

OPERATING TEMPERATURE RANGE

-55 to 125°C full rated voltage.

INSULATION RESISTANCE AT 25°C

The product of insulation resistance in megohms and the capacitance in microfarads shall be 6000 megohms-microfarads minimum. However, I.R. need not exceed 18,000 megohms.

DISSIPATION FACTOR AT 25°C

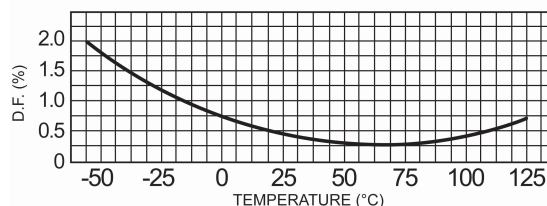
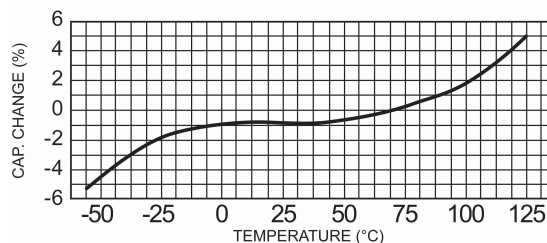
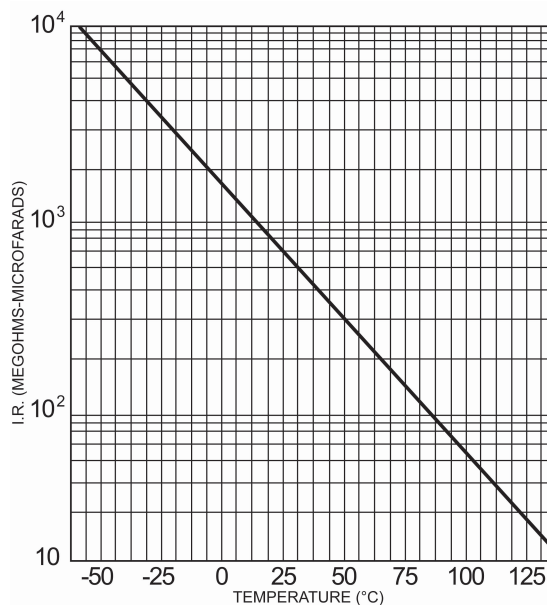
Less than 1% when measured at 1000Hz for values up to and including 1.0 μ F. Capacitance values greater than 1.0 μ F, are measured at 60 Hz.

DIELECTRIC STRENGTH

Tested at 200% of rated voltage for 1 minute through a limiting resistor of at least 1 ohm per volt.

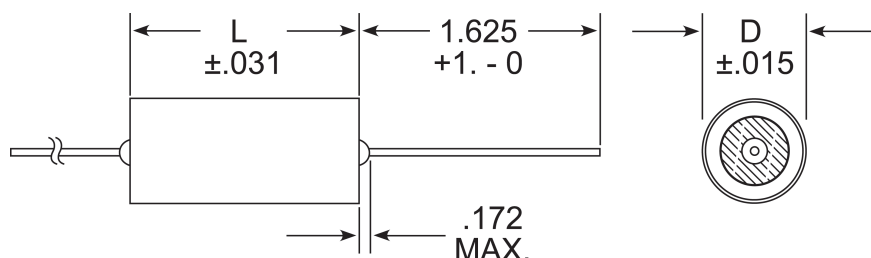
PART NUMBER DESCRIPTION

EXAMPLE:
 TYPE DESIGNATION — 18
 TOLERANCE — K
 VOLTAGE — 10
 CAPACITANCE — 474
 MODEL — -D



PAPER AND FOIL

NON INDUCTIVE, EXTENDED FOIL CONSTRUCTION



When ordering Type 15 or 17 Grounded Case Capacitors, change the part number accordingly, and deduct .062" from the length dimension.

Should an insulating sleeve be required, add the suffix "-3" to the AZ-CAP part number and allow an additional .016" and .062" to the "D" and "L" dimensions respectively.

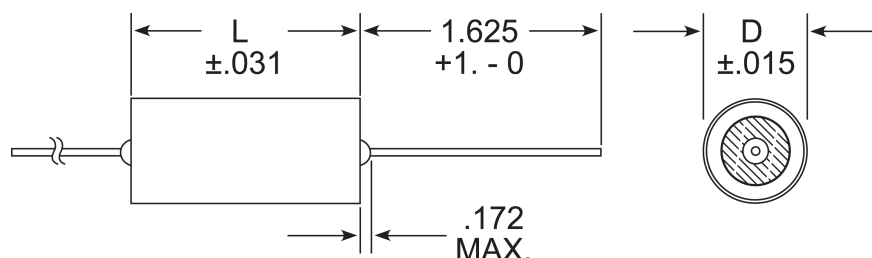
Intermediate capacitance values are available in the same case size as the next higher value.

μF	100 VDC			200 VDC			300 VDC			μF
	D	L	PART NO.	D	L	PART NO.	D	L	PART NO.	
.001	.175	.750	16_1102	.235	.750	16_2102	.235	.750	16_3102	.001
.0047	.175	.750	16_1472	.235	.750	16_2472	.235	.750	16_3472	.0047
.0068	.175	.750	16_1682	.235	.750	16_2682	.235	.750	16_3682	.0068
.0082	.175	.750	16_1822	.235	.750	16_2822	.235	.750	16_3822	.0082
.01	.175	.750	16_1103	.235	.750	16_2103	.235	.750	16_3103	.01
.018	.195	.750	16_1183	.235	.750	16_2183	.312	.875	16_3183	.018
.022	.195	.750	16_1223	.235	.750	16_2223	.312	.875	16_3223	.022
.033	.235	.750	16_1333	.312	.875	16_2333	.312	.875	16_3333	.033
.047	.312	.875	16_1473	.312	.875	16_2473	.312	.875	16_3473	.047
.068	.312	.875	16_1683	.312	.875	16_2683	.400	.875	16_3683	.068
.10	.312	.875	16_1104	.400	.875	16_2104	.400	1.125	16_3104	.10
.15	.400	.875	16_1154	.400	1.125	16_2154	.400	1.375	16_3154	.15
.22	.400	1.125	16_1224	.400	1.375	16_2224	.562	1.125	16_3224	.22
.33	.400	1.375	16_1334	.562	1.125	16_2334	.562	1.375	16_3334	.33
.47	.562	1.125	16_1474	.562	1.375	16_2474	.562	1.875	16_3474	.47
.68	.562	1.375	16_1684	.562	1.875	16_2684	.670	1.875	16_3684	.68
1.00	.562	1.875	16_1105	.670	1.875	16_2105	.750	2.125	16_3105	1.00
μF	400 VDC			600 VDC			1000 VDC			μF
	D	L	PART NO.	D	L	PART NO.	D	L	PART NO.	
.001	.235	.750	16_4102	.235	.750	16_6102	.400	.875	16_10102	.001
.0082	.235	.750	16_4822	.312	.875	16_6822	.400	.875	16_10822	.0082
.01	.235	.750	16_4103	.312	.875	16_6103	.400	.875	16_10103	.01
.015	.312	.875	16_4153	.312	.875	16_6153	.400	.875	16_10153	.015
.022	.312	.875	16_4223	.312	.875	16_6223	.400	1.125	16_10223	.022
.033	.312	.875	16_4333	.400	.875	16_6333	.400	1.375	16_10333	.033
.047	.400	.875	16_4473	.400	1.125	16_6473	.562	1.125	16_10473	.047
.068	.400	1.125	16_4683	.400	1.375	16_6683	.562	1.375	16_10683	.068
.10	.400	1.375	16_4104	.562	1.125	16_6104	.562	1.625	16_10104	.10
.015	.562	1.125	16_4154	.562	1.375	16_6154	.670	1.625	16_10154	.15
.22	.562	1.375	16_4224	.562	1.875	16_6224	.750	2.125	16_10224	.22
.33	.562	1.875	16_4334	.670	1.875	16_6334	.750	2.625	16_10334	.33
.47	.670	1.875	16_4474	.750	2.125	16_6474	1.000	2.125	16_10474	.47
.68	.750	2.125	16_4684	1.00	1.875	16_6684				.68
1.00	1.00	1.875	16_4105							1.00

PAPER AND FOIL

**TYPES 17 & 18
HERMETICALLY SEALED**

**NON INDUCTIVE,
EXTENDED FOIL
CONSTRUCTION**



When ordering Type 15 or 17 Grounded Case Capacitors, change the part number accordingly, and deduct .062" from the length dimension.

Should an insulating sleeve be required, add the suffix "-3" to the AZ-CAP part number and allow an additional .016" and .062" to the "D" and "L" dimensions respectively.

Intermediate capacitance values are available in the same case size as the next higher value.

μF	100 VDC			200 VDC			300 VDC			μF
	D	L	PART NO.	D	L	PART NO.	D	L	PART NO.	
.001	.175	.750	18_1102	.235	.750	18_2102	.235	.750	18_3102	.001
.0047	.175	.750	18_1472	.235	.750	18_2472	.235	.750	18_3472	.0047
.0068	.195	.750	18_1682	.235	.750	18_2682	.312	.875	18_3682	.0068
.0082	.235	.750	18_1822	.235	.750	18_2822	.312	.875	18_3822	.0082
.01	.235	.750	18_1103	.235	.750	18_2103	.312	.875	18_3103	.01
.018	.235	.750	18_1183	.312	.875	18_2183	.312	.875	18_3183	.018
.022	.312	.875	18_1223	.312	.875	18_2223	.312	.875	18_3223	.022
.033	.312	.875	18_1333	.312	.875	18_2333	.400	.875	18_3333	.033
.047	.312	.875	18_1473	.400	.875	18_2473	.400	.875	18_3473	.047
.068	.400	.875	18_1683	.400	.875	18_2683	.400	1.125	18_3683	.068
.10	.400	.875	18_1104	.400	1.125	18_2104	.400	1.375	18_3104	.10
.15	.400	1.125	18_1154	.400	1.375	18_2154	.562	1.125	18_3154	.15
.22	.400	1.375	18_1224	.562	1.125	18_2224	.562	1.375	18_3224	.22
.33	.562	1.125	18_1334	.562	1.375	18_2334	.562	1.625	18_3334	.33
.47	.562	1.375	18_1474	.562	1.625	18_2474	.670	1.625	18_3474	.47
.68	.562	1.625	18_1684	.670	1.625	18_2684	.750	2.125	18_3684	.68
1.00	.670	1.625	18_1105	.750	2.125	18_2105		1.00		
μF	400 VDC			600 VDC			1000 VDC			μF
	D	L	PART NO.	D	L	PART NO.	D	L	PART NO.	
.001	.235	.750	18_4102	.235	.750	18_6102	.400	.875	18_10102	.001
.0022	.235	.750	18_4222	.235	.750	18_6222	.400	.875	18_10222	.0022
.0033	.235	.750	18_4332	.312	.875	18_6332	.400	.875	18_10332	.0033
.01	.312	.875	18_4103	.321	.875	18_6103	.400	.875	18_10103	.01
.015	.312	.875	18_4153	.400	.875	18_6153	.400	1.125	18_10153	.015
.022	.400	.875	18_4223	.400	.875	18_6223	.400	1.375	18_10223	.022
.033	.400	.875	18_4333	.400	1.125	18_6333	.562	1.125	18_10333	.033
.047	.400	1.125	18_4473	.400	1.375	18_6473	.562	1.375	18_10473	.047
.068	.400	1.375	18_4683	.562	1.125	18_6683	.562	1.625	18_10683	.068
.10	.562	1.125	18_4104	.562	1.375	18_6104	.670	1.625	18_10104	.10
.15	.562	1.375	18_4154	.562	1.625	18_6154	.670	1.875	18_10154	.15
.22	.562	1.625	18_4224	.670	1.625	18_6224	.750	2.125	18_10224	.22
.33	.670	1.625	18_4334	.750	2.125	18_6332	1.000	2.125	18_10334	.33
.47	.750	2.125	18_4474	.750	2.375	18_6474	1.000	2.375	18_10474	.47

TYPES

15, 17 - Case Grounded
16, 18 - Case Floating

STYLE

Terminal configuration - see individual drawings and schematic diagrams for details.

TOLERANCE

J $\pm 5\%$
K $\pm 10\%$
L $+ 20, -10$
M $\pm 20\%$

VOLTAGE

1 100 VDC
2 200 VDC
4 400 VDC
6 600 VDC
10 1000 VDC

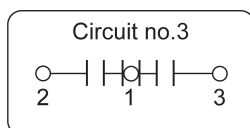
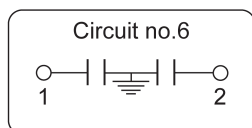
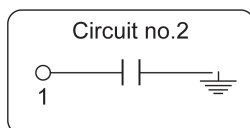
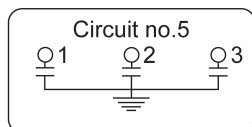
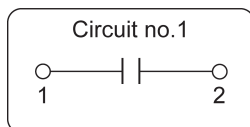
CHARACTERISTICS

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

AZ-CAP characteristic symbol	11,12	15,16	25,26
Military characteristic symbol	F	K	E
Temperature rating (max.)	85°C	125°C	85°C
Temperature rating (min.)	-55°C	-55°C	-55°C
Insulation resistance @ 25°C			
Megohms x Microfards*	1500	6000	2000
Megohms (need not exceed)*	4500	18000	6000

* The product of insulation resistance in megohms and capacitance in microfarads shall be as specified. However, the insulation resistance need not exceed the value specified.

CIRCUIT DIAGRAMS



NO. SECTIONS

SYMBOL	CIRCUIT DIAGRAM	NO. TERMINALS
None	1	2
None	2	1
D	4	3
D	6	2
T	5	3

DISSIPATION FACTOR AT 25°C

Less than 1% when measured at 1000Hz for values up to and including 1.0 μF . Capacitance values greater than 1.0 μF , are measured at 60 Hz.

DIELECTRIC STRENGTH

Tested at 200% of rated voltage for 1 minute through a limiting resistor of at least 1 ohm per volt.

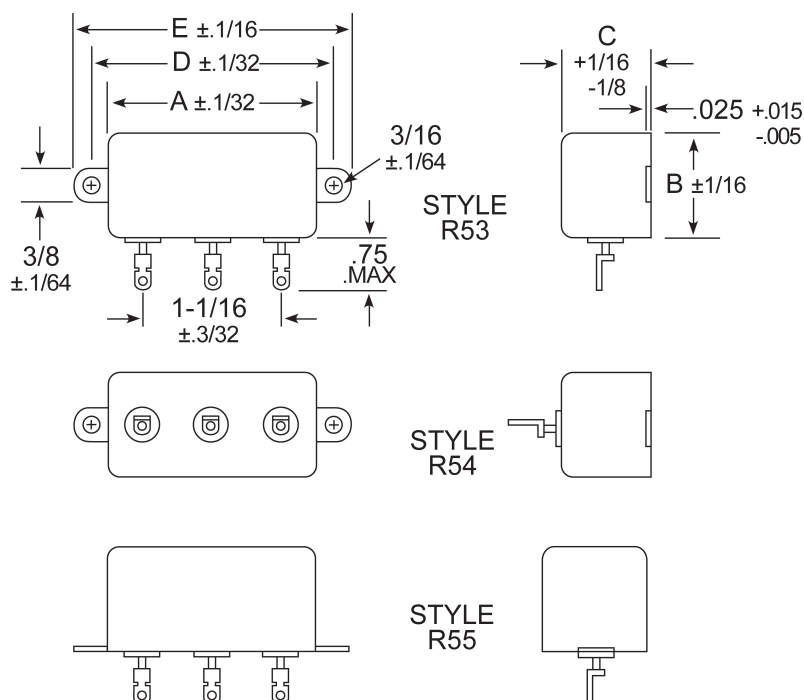
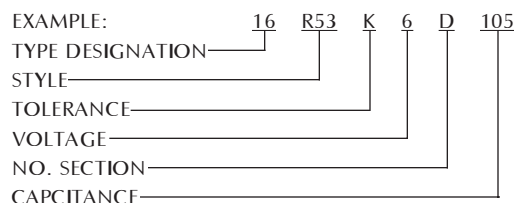
APPLICATIONS

AZ-CAP paper dielectric bathtub style capacitors are manufactured using the finest grade of kraft paper and impregnating oils available. Applications range from by-pass and coupling to de-spiking and many others.

CASE OUTLINE & TERMINAL CONFIGURATION

See page 2 for case dimensions.

PART NUMBER DESCRIPTION





CAPACITANCE (mfd)	AZ-CAP PART NUMBER	CASE SIZE			VOLTAGE	CIRCUIT DIAGRAM
		11,12	15,16	25,26		
1.0	__R5__1105	A1	A2	A2	100	1.2
2.0	__R5__1205	--	B1	B1	100	1.2
4.0	__R5__1405	C1	C2	C2	100	1.2
8.0	__R5__1805	C1	--	--	100	1.2
10.0	__R5__1106	C2	--	--	100	1.2
.50	__R5__2504	A1	A2	A2	200	1.2
1.0	__R5__2105	--	B1	B1	200	1.2
2.0	__R5__2205	--	C1	C1	200	1.2
.05	__R5__4503	--	A1	A1	400	1.2
.10	__R5__4104	--	A1	A1	400	1.2
.25	__R5__4254	--	A1	A1	400	1.2
.50	__R5__4504	--	A2	A2	400	1.2
1.0	__R5__4105	--	B1	B1	400	1.2
.05	__R5__6503	--	A1	A1	600	1.2
.10	__R5__6104	--	A1	A1	600	1.2
.25	__R5__6254	--	A1	A1	600	1.2
.50	__R5__6504	A2	A3	A3	600	1.2
1.0	__R5__6105	B1	B2	B2	600	1.2
* 2.0	__R5__6205	--	C2	C2	600	1.2
.05	__R5__10503	--	A1	A1	1000	1.2
.10	__R5__10104	--	A1	A1	1000	1.2
.25	__R5__10254	A1	A2	A2	1000	1.2
.50	__R5__10504	--	B1	B1	1000	1.2
* 1.0	__R5__10105	--	C2	C2	1000	1.2
<u>DUAL UNITS</u>						
.05 -.05	__R5__6D503	--	A1	A1	600	4.6
.10 -.10	__R5__6D104	--	A1	A1	600	4.6
.25 -.25	__R5__6D254	A2	A3	A3	600	4.6
.50 -.50	__R5__6D504	B1	B2	B2	600	4.6
* 1.0 -1.0	__R5__6D105	--	C2	C2	600	4.6
.05 -.05	__R5__10D503	--	A1	A1	1000	4.6
.10 -.10	__R5__10D104	A1	A2	A2	1000	4.6
.25 -.25	__R5__10D254	--	B1	B1	1000	4.6
* .50 -.50	__R5__10D504	--	C2	C2	1000	4.6
<u>TRIPLE UNITS</u>						
.50 -.50 -.50	__R5__4T504	C1	C2	C2	400	5
.05 -.05 -.05	__R5__6T503	--	A1	A1	600	5
.10 -.10 -.10	__R5__6T104	A1	A2	A2	600	5
.25 -.25 -.25	__R5__6T254	--	B1	B1	600	5
* .50 -.50 -.50	__R5__6T504	--	C2	C2	600	5
.05 -.05 -.05	__R5__10T503	--	A1	A1	1000	5
.10 -.10 -.10	__R5__10T104	--	B1	B1	1000	5
* .25 -.25 -.25	__R5__10T254	--	C2	C2	1000	5

*Case size for R54 and R55 is C3

CASE SIZE	DIMENSIONS				
	A	B	C	D	E
A1	1.812	1.000	.750	2.125	2.500
A2	1.812	1.000	.875	2.125	2.500
A3	1.812	1.000	1.000	2.125	2.500
B1	2.000	1.750	.875	2.375	2.750
B2	2.000	1.750	1.000	2.375	2.750
C1	2.000	2.000	1.000	2.375	2.750
C2	2.000	2.000	1.125	2.375	2.750
C3	2.000	2.000	1.250	2.375	2.750

ISO 9001:2008 REGISTERED

PAPER AND FOIL

TYPE

"CP70" capacitors are manufactured in rectangular terne plate double rolled seamed cans, using the finest kraft paper dielectric available. The capacitors are impregnated with highly refined oils, under the most stringent conditions, to ensure corona free operation.

TERMINAL

- B - SOLDER LUG
- D - CERAMIC PILLAR INSULATOR (used up to 7500 ft.)
- E - CERAMIC PILLAR INSULATOR (used up to 3.4 in. of mercury)

NOTE: See Table 2 for Dimensions.

CIRCUIT DIAGRAM



CHARACTERISTICS

Az - Cap type "CP70" capacitors will meet or exceed the requirements of MIL-C-25, characteristic "E" and "K".

Characteristic Symbol	"E"	"K"
Maximum operating temperature	85°C	125°C
Minimum operating temperature	-55°C	-55°C
Insulation resistance @ 25°C	2000	6000
Megohms x Microfarads*	6000	18000
Megohms (need not exceed)*		

DIELECTRIC STRENGTH

Tested at 200% of rated voltage for 1 minute through a limiting resistor of at least 1 ohm per volt.

VOLTAGE

F - 600 VDC	M - 4000 VDC
G - 1000 VDC	N - 5000 VDC
H - 1500 VDC	P - 6000 VDC
J - 2000 VDC	R - 7500 VDC
K - 2500 VDC	S - 10000 VDC
L - 3000 VDC	T - 12500 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

TOLERANCE

k $\pm$ 10%

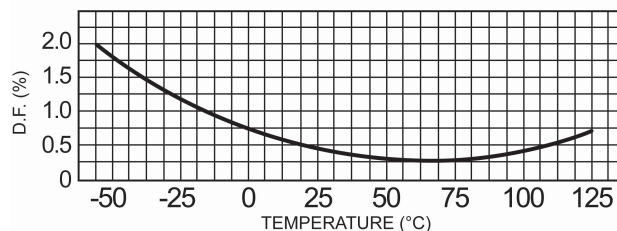
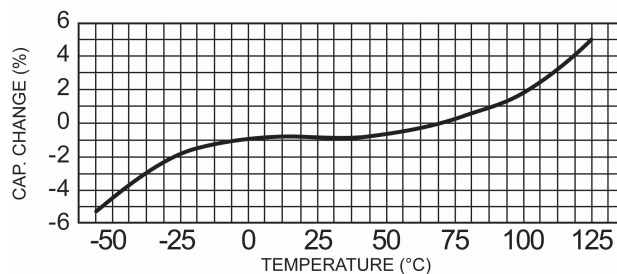
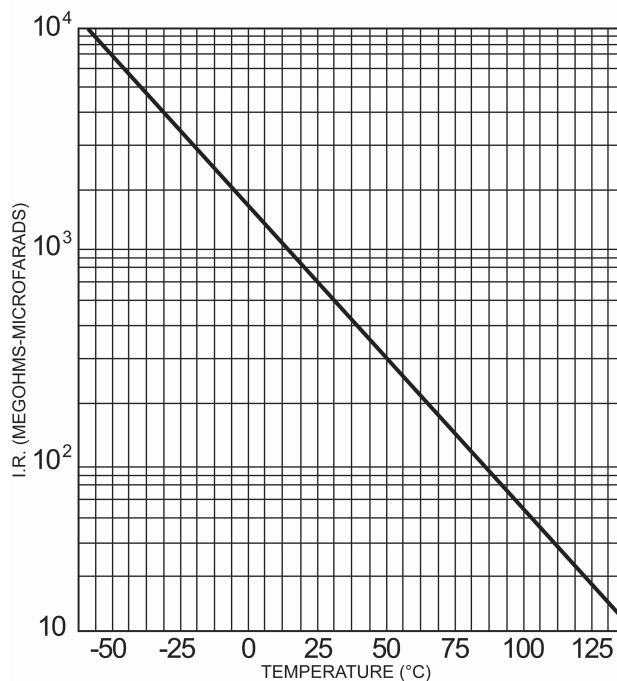
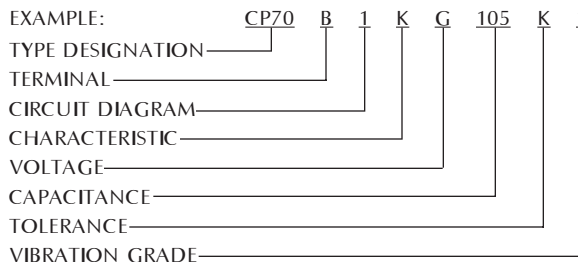
VIBRATION GRADE

1 - 10 to 55 Hz (inc.)

MOUNTING BRACKETS

Contact factory for details.

PART NUMBER DESCRIPTION



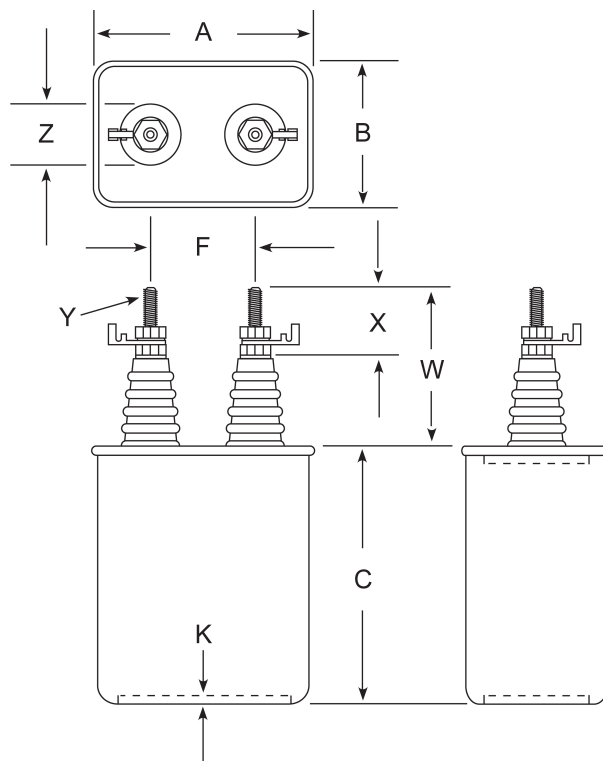
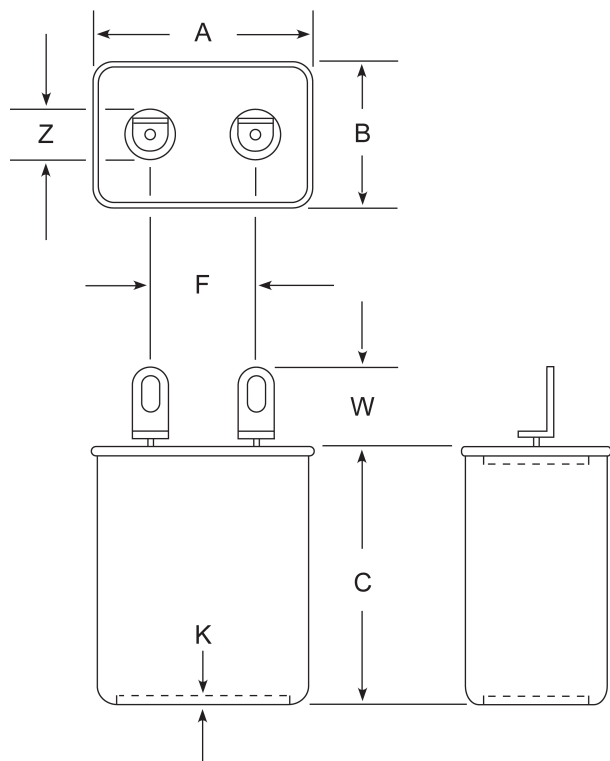


PART NUMBER	VOLTAGE (DC)	CAPACITANCE (μ F)	CASE SIZE CHARACTERISTIC		AVAILABLE TERMINAL		
			E	F	B	D	E
CP70_1EF254K1	600	.25	A1	--	1	--	2
CP70_1EF105K1	600	1.0	A2	--	1	--	2
CP70_1_F205K1	600	2.0	A4	A3	1	--	2
CP70_1_F405K1	600	4.0	B4	B3	1	--	2
CP70_1_F605K1	600	6.0	C2	B6	1	--	2
CP70_1_F805K1	600	8.0	C3	C2	1	--	2
CP70_1_F106K1	600	10.0	D3	C4	1	--	2
CP70_1EG104K1	1000	.10	A1	--	1	--	2
CP70_1EG254K1	1000	.25	A2	--	1	--	2
CP70_1EG504K1	1000	.50	A2	--	1	--	2
CP70_1_G105K1	1000	1.0	A3	A2	1	--	2
CP70_1_G205K1	1000	2.0	A6	A5	1	--	2
CP70_1_G405K1	1000	4.0	C2	B6	1	--	2
CP70_1_G605K1	1000	6.0	D3	C4	1	--	2
CP70_1_G805K1	1000	8.0	D5	D2	1	--	2
CP70_1_G106K1	1000	10.0	E5	D5	1	--	2
CP70_1_G126K1	1000	12.0	E6	E4	1	--	2
CP70_1_G156K1	1000	15.0	G2	F1	1	--	2
CP70_1EH104K1	1500	.10	A2	--	1	--	2
CP70_1_H254K1	1500	.25	A3	A2	1	--	2
CP70_1EH504K1	1500	.50	A3	--	1	--	2
CP70_1_H105K1	1500	1.0	A6	A5	1	--	2
CP70_1_H205K1	1500	2.0	B6	B5	1	--	2
CP70_1_H405K1	1500	4.0	D4	C4	1	--	2
CP70_1_H605K1	1500	6.0	E5	D5	1	--	2
CP70_1_H805K1	1500	8.0	F2	F1	1	--	2
CP70_1_H106K1	1500	10.0	G4	G2	1	--	2
CP70_1_H126K1	1500	12.0	J3	G2	1	--	2
CP70_1_H156K1	1500	15.0	J6	J3	1	--	2
CP70E1EJ254K1	2000	.25	B1	--	--	--	3
CP70E1EJ504K1	2000	.50	B2	--	--	--	3
CP70E1_J105K1	2000	1.0	B6	B3	--	--	3
CP70E1_J205K1	2000	2.0	C4	C3	--	--	3
CP70E1_J405K1	2000	4.0	E6	E3	--	--	3
CP70E1_J605K1	2000	6.0	G4	G1	--	--	3
CP70E1_J805K1	2000	8.0	J4	G3	--	--	3
CP70E1_J106K1	2000	10.0	J7	J3	--	--	3
CP70E1_J126K1	2000	12.0	J9	J5	--	--	3
CP70E1_J156K1	2000	15.0	J10	J7	--	--	3
CP70E1EK104K1	2500	.10	B1	--	--	--	3
CP70E1_K254K1	2500	.25	B2	B1	--	--	3
CP70E1_K504K1	2500	.50	B4	B3	--	--	3
CP70E1_K105K1	2500	1.0	D2	D1	--	--	3
CP70E1_K205K1	2500	2.0	E5	D5	--	--	3
CP70E1_K405K1	2500	4.0	J2	--	--	--	3
CP70E1_K605K1	2500	6.0	J6	J4	--	--	3
CP70E1_K805K1	2500	8.0	J8	J6	--	--	3
CP70E1_K106K1	2500	10.0	J10	J8	--	--	3
CP70E1_K126K1	2500	12.0	K3	J10	--	--	3
CP70E1_L104K1	3000	.10	B2	B1	--	--	3
CP70E1_L254K1	3000	.25	B3	B2	--	--	3
CP70E1_L504K1	3000	.50	B6	B5	--	--	3
CP70E1_L105K1	3000	1.0	E4	E3	--	--	3
CP70E1_L205K1	3000	2.0	G2	G1	--	--	3
CP70E1_L405K1	3000	4.0	J7	J3	--	--	3
CP70E1_L605K1	3000	6.0	K2	J9	--	--	3
CP70E1EM104K1	4000	.10	E1	--	--	--	4
CP70E1_M254K1	4000	.25	E3	E1	--	--	4
CP70E1_M504K1	4000	.50	E5	E3	--	--	4
CP70E1_M105K1	4000	1.0	G2	E6	--	--	4
CP70E1_M205K1	4000	2.0	J6	J4	--	--	4
CP70E1_M405K1	4000	4.0	J11	J10	--	--	4
CP70E1EN104K1	5000	.10	E1	--	--	--	4
CP70E1EN254K1	5000	.25	E3	--	--	--	4
CP70E1_N504K1	5000	.50	E6	E4	--	--	4
CP70E1_N105K1	5000	1.0	J4	J2	--	--	4
CP70E1_N205K1	5000	2.0	J11	J6	--	--	4
CP70E1_N405K1	5000	4.0	K4	K3	--	--	4
CP70D1_P104K1	6000	.10	E3	E2	--	--	4
CP70D1_P254K1	6000	.25	E5	E4	--	--	4

SEE PAGES 6-9 FOR ADDITIONAL VALUES AND DIMENSIONS

PAPER AND FOIL

PART NUMBER	VOLTAGE (DC)	CAPACITANCE (μ F)	CASE SIZE CHARACTERISTIC		AVAILABLE TERMINAL		
			E	F	B	D	E
CP70D1_P504K1	6000	.50	J3	J2	--	4	--
CP70D1_P105K1	6000	1.0	J	J9	--	4	--
CP70D1_P205K1	6000	2.0	L1	K3	--	4	--
CP70D1_R104K1	7500	.10	E5	E3	--	4	--
CP70D1_R254K1	7500	.25	J2	J1	--	4	--
CP70D1_R504K1	7500	.50	J6	J4	--	4	--
CP70D1ER105K1	7500	1.0	K3	--	--	4	--
CP70D1_R205K1	7500	2.0	L2	K4	--	4	--
CP70D1_S504K1	10000	.50	K4	K3	--	4	--
CP70D1_S105K1	10000	1.0	L2	K4	--	4	--
CP70D1_S205K1	10000	2.0	M1	L3	--	4	--
CP70D1ET104K1	12500	.10	K1	--	--	4	--
CP70D1ET254K1	12500	.25	K2	--	--	4	--
CP70D1_T504K1	12500	.50	L1	K4	--	4	--
CP70D1_T105K1	12500	1.0	M1	L3	--	4	--
CP70D1_T205K1	12500	2.0	M2	M1	--	4	--



TERMINAL DIMENSIONS

TERMINAL NUMBER	TERMINAL SYMBOL	W (max.)	X		Y (min.)	Y (max.)	Z (max.)
			DIMENSION	TOL.			
1	B	.750	--	--	--	--	.812
2	E	1.375	.437	$\pm .062$	10-32 NF-2A	12-24 NC-2A	.813
3	E	1.750	.437	$\pm .062$	10-32 NF-2A	12-24 NC-2A	1.00
4	D, E	2.750	.937	$\pm .250$	12-24 NC-2A	5/16-18 UNC-2A	1.437
5	D	4.250	.687	$\pm .250$	3/8-16 UNC-2A	1/2-13 NC-2A	3.000

FOR CASE SIZES SEE PAGE 9

ISO 9001:2008 REGISTERED

PAPER AND FOIL

CASE SIZE	CASE DIMENSIONS			F (=.62, -.187)	CASE SIZE	CASE DIMENSIONS			F (=.62, -.187)
	A (±.062)	B (±.062)	C (±.062)			A (±.062)	B (±.062)	C (±.062)	
A1	1.812	1.062	1.625	.813	F1	3.750	2.500	4.750	2.000
A2	1.812	1.062	2.250	.813	F2	3.750	2.500	5.750	2.000
A3	1.812	1.062	2.875	.813	G1	3.750	3.188	4.500	2.000
A4	1.812	1.062	3.250	.813	G2	3.750	3.188	4.750	2.000
A5	1.812	1.062	3.875	.813	G3	3.750	3.188	5.125	2.000
A6	1.812	1.062	4.750	.813	G4	3.750	3.188	5.500	2.000
B1	2.500	1.188	2.500	1.125	J1	4.562	3.750	3.875	2.000
B2	2.500	1.188	2.875	1.125	J2	4.562	3.750	4.375	2.000
B3	2.500	1.188	3.500	1.125	J3	4.562	3.750	4.750	2.000
B4	2.500	1.188	3.875	1.125	J4	4.562	3.750	5.125	2.000
B5	2.500	1.188	4.250	1.125	J5	4.562	3.750	5.500	2.000
B6	2.500	1.188	4.750	1.125	J6	4.562	3.750	6.000	2.000
C2	3.750	1.250	3.875	2.000	J7	4.562	3.750	6.500	2.000
C3	3.750	1.250	4.250	2.000	J8	4.562	3.750	7.000	2.000
C4	3.750	1.250	4.750	2.000	J9	4.562	3.750	7.500	2.000
D1	3.750	1.750	3.250	2.000	J10	4.562	3.750	8.500	2.000
D2	3.750	1.750	3.875	2.000	J11	4.562	3.750	9.625	2.000
D3	3.750	1.750	4.000	2.000	K1	8.000	4.000	5.500	4.500
D4	3.750	1.750	4.250	2.000	K2	8.000	4.000	7.000	4.500
D5	3.750	1.750	4.750	2.000	K3	8.000	4.000	9.250	4.500
E1	3.750	2.250	2.750	2.000	K4	8.000	4.000	11.000	4.500
E2	3.750	2.250	3.375	2.000	L1	13.500	4.125	7.000	6.750
E3	3.750	2.250	3.875	2.000	L2	13.500	4.125	9.250	6.750
E4	3.750	2.250	4.500	2.000	L3	13.500	4.125	13.125	6.750
E5	3.750	2.250	4.750	2.000	M1	13.500	5.125	12.875	6.750
E6	3.750	2.250	5.125	2.000	M2	13.500	5.125	13.750	6.750

FOR MOUNTING BRACKET DETAILS
OR
OTHER SPECIAL REQUIREMENTS
CONTACT THE FACTORY

ISO 9001:2008 REGISTERED

HIGH VOLTAGE PAPER/PLASTIC CAPACITORS

TYPE

"60" - Ceramic tube with metal endcaps and screw terminations.

TOLERANCE

U	± 2%
J	± 5%
K	± 10%
M	± 20%

VOLTAGE

01	1000 VDC
02	2000 VDC
03	3000 VDC
05	5000 VDC
08	7500 VDC
10	10000 VDC
15	15000 VDC
20	20000 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

TERMINATION

Standard termination is a #8 - 32 brass screw electro-tin plated for solderability. Other configurations available.

CHARACTERISTICS

Az- Cap type "60" capacitors are polyester/paper oil impregnated construction, which offers outstanding characteristics in reliability and performance.

OPERATING TEMPERATURE RANGE

-55°C TO 85°C at full rated voltage.

INSULATION RESISTANCE

The product of insulation resistance in megohms and the capacitance in microfarads shall be 25000 megohms-microfarads minimum. However, I.R. need not exceed 50000 megohms.

DISSIPATION FACTOR

Less than .60% when measured at 1000Hz.

DIELECTRIC STRENGTH

Tested at 150% of rated voltage for 1 minute through a limiting resistor of at least 1 ohm per volt.

TYPICAL APPLICATIONS

BY-PASS CAPACITORS
COUPLING CAPACITORS
DE-SPIKING NETWORKS
PULSE FORMING NETWORKS
TRANSMITTER TUNED CIRCUITS
VOLTAGE MULTIPLIES
HIGH VOLTAGE FILTERS

SPECIAL REQUIREMENTS

Intermediate capacitance values are available in the same case size as the next higher value.

Optional screw termination sizes, lengths, and materials are available. Please contact factory.

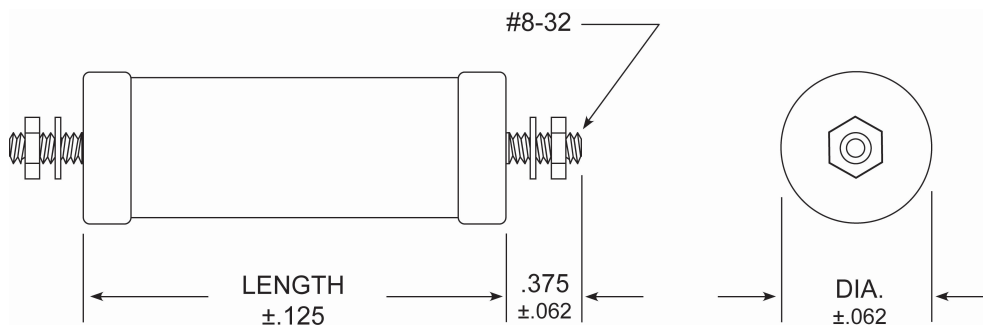
Optional dielectric configuration are available for specific characteristic requirements. Please contact factory.

PART NUMBER DESCRIPTION

EXAMPLE: 60 K 20 102
TYPE DESIGNATION—
TOLERANCE—
VOLTAGE—
CAPACITANCE—

HIGH VOLTAGE PAPER/PLASTIC CAPACITORS

CERAMIC CASE
NON INDUCTIVE
EXTENDED FOIL
CONSTRUCTION



μF	D	L	VOLTS	PART NO.	μF	D	L	VOLTS	PART NO.
.002	.53	1-3/16	1 KV	60_01202	.001	.53	1-9/16	7.5 KV	60-08102
.005	.53	1-3/16	1 KV	60_01502	.002	.53	1-9/16	7.5 KV	60-08202
.01	.53	1-3/16	1 KV	60_01103	.005	.69	1-3/4	7.5 KV	60-08502
.02	.53	1-3/16	1 KV	60_01203	.01	.69	2-1/4	7.5 KV	60-08103
.05	.53	1-9/16	1 KV	60_01503	.02	.84	2-1/4	7.5 KV	60-08203
.10	.69	2-1/4	1 KV	60_01104	.05	1.31	2-3/4	7.5 KV	60-08503
.25	.84	2-1/4	1 KV	60_01254	.10	1.31	2-3/4	7.5 KV	60-08104
.50	1.06	2-1/4	1 KV	60_01504					
.002	.53	1-3/16	2 KV	60_02202	.001	.53	1-9/16	10 kKV	60_10102
.005	.53	1-3/16	2 KV	60_02502	.002	.53	1-9/16	10 KV	60_10202
.01	.53	1-3/16	2 KV	60_02103	.005	.69	1-3/4	10 KV	60_10502
.02	.53	1-9/16	2 KV	60_02203	.01	.84	2-1/4	10 KV	60_10103
.05	.69	1-3/4	2 KV	60_02503	.02	1.06	2-1/4	10 KV	60_10203
.10	.69	2-1/4	2 KV	60_02104	.05	1.31	2-3/4	10 KV	60_10503
.25	1.06	2-3/8	2 KV	60_02254	.10	1.75	4-11/32	10 KV	60_10104
.50	1.31	2-3/4	2 KV	60_02504					
.002	.53	1-3/16	3 KV	60_03202	.0005	.69	2-1/4	15 KV	60_15501
.005	.53	1-3/16	3 KV	60_03502	.001	.69	2-1/4	15 KV	60_15102
.01	.53	1-9/16	3 KV	60_03103	.002	.84	2-1/4	15 KV	60_15202
.02	.69	1-3/4	3 KV	60_03203	.005	.84	2-1/4	15 KV	60_15502
.05	.69	2-1/4	3 KV	60_03503	.01	1.06	2-1/4	15 KV	60_15103
.10	.84	2-1/4	3 KV	60_03104	.02	1.31	2-3/4	15 KV	60_15203
.25	1.06	2-3/8	3 KV	60_03254	.05	1.75	4-11/32	15 KV	60_15503
.50	1.31	2-3/4	3 KV	60_03504					
.001	.53	1-9/16	5 KV	60_05102	.0005	.69	2-1/4	20 KV	60_20501
.002	.53	1-9/16	5 KV	60_05202	.001	.69	2-1/4	20 KV	60_20102
.005	.53	1-9/16	5 KV	60_05502	.002	.84	2-1/4	20 KV	60_20202
.01	.69	1-3/4	5 KV	60_05103	.005	1.06	2-3/4	20 KV	60_20502
.02	.69	2-1/4	5 KV	60_05203	.01	1.31	2-3/4	20 KV	60_20103
.05	.84	2-1/4	5 KV	60_05503	.02	1.75	4-11/32	20 KV	60_20203
.10	1.06	2-1/4	5 KV	60_05104					
.25	1.31	2-3/4	5 KV	60_05254					

ISO 9001:2008 REGISTERED

HIGH VOLTAGE PAPER/PLASTIC CAPACITORS

TYPE

"W90" - Rigid dielectric case with epoxy endfill.
See Case Material for specific details.

TYPICAL APPLICATIONS

COUPLING CAPACITOR	BY-PASS CAPACITOR
DE-SPIKING NETWORK	ENERGY DISCHARGE
PULSE FORMING NETWORK	VOLTAGE MULTIPLIER
IMPULSE GENERATOR	HIGH VOLTAGE FILTER

CHARACTERISTICS

Arizona Capacitor's "W90" series capacitors are constructed using the finest quality paper/plastic dielectrics available. The capacitors are impregnated with highly refined oils, under the most stringent conditions, to ensure corona free operation. These outstanding characteristics combined with AZ-CAP's excellent manufacturing techniques, ensures that "W90" series capacitors have the highest reliability and performance available.

CAPACITANCE

Ratings range from 10 picofarads to 1.0 microfarads are available. The standard tolerance is $\pm 10\%$. Other capacitance ratings and tolerances are available. Contact the factory for details.

VOLTAGE

"W90" type capacitors are available in voltage ratings ranging from 2 KVDC, to as high as 250 KVDC. Other DC and AC ratings are available, contact the factory for details.

DISSIPATION FACTOR

Less than .6% when measured at 1000Hz, 25°C.

INSULATION RESISTANCE

The product of insulation resistance in megohms and the capacitance in microfarads shall be 25000 megohms-microfarads minimum. However I.R. need not exceed 50000 megohms.

DIELECTRIC STRENGTH

Tested at 1.3 times rated voltage through a current limiting resistor of at least 1 ohm per volt.

OPERATING TEMPERATURE *

-55 To 60°C at full rated temperature
-55 To 85°C at 30% derating
-55 To 105°C at 50% derating
-55 To 125°C at 75% derating
* Operating temperature must not exceed maximum case material temperature.

CASE MATERIAL

AZ-CAP offers 4 variations of case materials to suit specific environmental applications, while considering cost.

DASH	MATERIAL	TEMP.	COST
-PVC	PVC	60°C	LOWEST
-CPV	CPVC	85°C	LOW
-PHN	PHENOLIC	105°C	MEDIUM
-G10	G-10	125°C	HIGH

TERMINATION

Standard termination is a 1/4 - 20 x 3/4" long electro-tin plated brass stud. Other termination such as, threaded inserts & corona retarding flanges, are available. Contact factory for detailed specifications.

LIFE EXPECTANCY

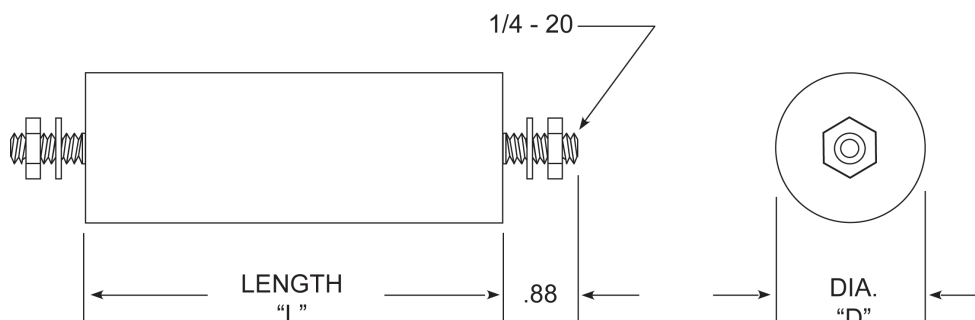
10,000 hrs. minimum when operated continuously at rated conditions. Longer life expectancy is possible, depending on operating conditions. Contact factory for detailed information.

PART NUMBER DESCRIPTION

EXAMPLE: W90 501 PVC
TYPE DESIGNATION ————
TABULATION —————
CASE MATERIAL —————

HIGH VOLTAGE PAPER/PLASTIC CAPACITORS

**DIELECTRIC CASE
NON INDUCTIVE
EXTENDED FOIL
CONSTRUCTION**



μF	D	L	VOLTS	TAB	μF	D	L	VOLTS	TAB	μF	D	L	VOLTS	TAB
.10	1.00	2.50	3 KV	501	.002	1.00	7.50	30 KV	531	.001	2.38	10.50	100 KV	561
.25	1.00	3.75	3 KV	502	.005	1.00	8.75	30 KV	532	.002	2.38	12.75	100 KV	562
.50	1.00	5.75	3 KV	503	.01	1.90	7.50	30 KV	533	.005	3.50	12.75	100 KV	563
.75	1.31	5.75	3 KV	504	.025	1.90	9.75	30 KV	534	.01	3.50	14.75	100 KV	564
1.0	1.31	6.25	3 KV	505	.05	2.38	11.75	30 KV	535	.025	4.00	17.75	100 KV	565
2.0	1.90	6.25	3 KV	506	.10	3.50	11.00	30 KV	536	.05	4.50	22.75	100 KV	566
.05	1.00	2.50	5 KV	507	.001	1.00	7.50	40 KV	537	.001	2.38	14.50	120 KV	567
.10	1.00	3.75	5 KV	508	.002	1.00	8.50	40 KV	538	.002	3.50	14.50	120 KV	568
.25	1.00	5.75	5 KV	509	.005	1.90	8.50	40 KV	539	.005	3.50	17.00	120 KV	569
.50	1.31	6.25	5 KV	510	.01	1.90	9.50	40 KV	540	.01	4.00	17.00	120 KV	570
.75	1.90	5.75	5 KV	511	.025	2.38	11.75	40 KV	541	.025	4.00	24.50	120 KV	571
1.0	1.90	6.25	5 KV	512	.05	3.50	11.00	40 KV	542	.05	4.50	28.25	120 KV	572
.025	1.00	3.75	8 KV	513	.001	1.90	8.25	50 KV	543	.001	2.38	19.75	150 KV	573
.05	1.00	4.25	8 KV	514	.002	1.90	8.75	50 KV	544	.002	3.50	19.75	150 KV	574
.10	1.00	5.75	8 KV	515	.005	2.38	9.25	50 KV	545	.005	4.00	21.50	150 KV	575
.25	1.31	7.25	8 KV	516	.01	2.38	10.50	50 KV	546	.01	4.00	25.00	150 KV	576
.50	1.90	7.25	8 KV	517	.025	3.50	11.25	50 KV	547	.025	4.50	34.00	150 KV	577
.75	2.38	7.25	8 KV	518	.05	3.50	14.75	50 KV	548	.05	5.56	37.50	150 KV	578
.01	1.00	3.75	10 KV	519	.001	1.90	9.25	60 KV	549					
.025	1.00	4.25	10 KV	520	.002	1.90	10.00	60 KV	550					
.05	1.31	5.75	10 KV	521	.005	2.38	10.75	60 KV	551					
.10	1.31	6.25	10 KV	522	.01	2.38	13.00	60 KV	552					
.25	1.90	7.25	10 KV	523	.025	3.50	13.75	60 KV	553					
.50	2.38	7.25	10 KV	524	.05	4.00	16.00	60 KV	554					
.005	1.00	5.75	20 KV	525	.001	2.38	10.50	80 KV	555					
.01	1.31	6.25	20 KV	526	.002	2.38	10.50	80 KV	556					
.025	1.90	6.25	20 KV	527	.005	2.38	12.25	80 KV	557					
.05	2.38	6.25	20 KV	528	.01	3.50	13.25	80 KV	558					
.10	2.38	8.25	20 KV	529	.025	4.00	15.00	80 KV	559					
.25	3.50	8.75	20 KV	530	.05	4.50	19.75	80 KV	560					

ISO 9001:2008 REGISTERED

PAPER/PLASTIC CAPACITORS

TYPE

Type "30" style capacitors are manufactured in rectangular terne plate double rolled seamed cans or painted CRS welded cans. AZ-CAP uses the finest polyester and kraft paper dielectrics available. The capacitors are impregnated with highly refined oils, under the most stringent conditions, to assure corona free operation and long life.

VOLTAGE

F --	600	R --	8000
G --	1000	S --	10000
H --	1500	T --	12500
J --	2000	V --	15000
L --	3000	W --	20000
M --	4000	X --	30000
N --	5000	Y --	40000
P --	6000	Z --	50000

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

TOLERANCE

J	± 5%
K	± 10%
M	± 20%

FINISH

Double rolled seamed cans - terne plate*
CRS welded cans - polyurethane paint
* polyurethane available upon request

CHARACTERISTICS

AZ-CAP Type "30" capacitors meet or exceeds the requirements of MIL-C-19978, characteristic "E".

OPERATING TEMPERATURE RANGE

-56 to 85°C at full rated voltage.

INSULATION RESISTANCE

The product of insulation resistance in megohms and the capacitance in microfarads shall be 15000 megohms-microfarads minimum. However, I.R. need not exceed 25000 megohms.

DISSIPATION FACTOR

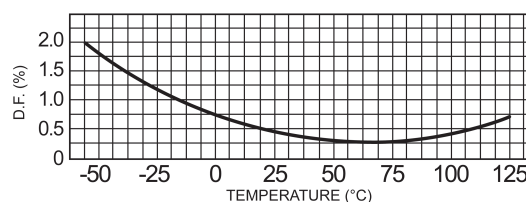
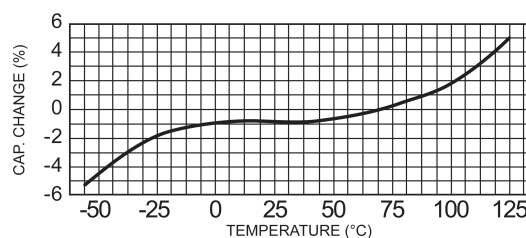
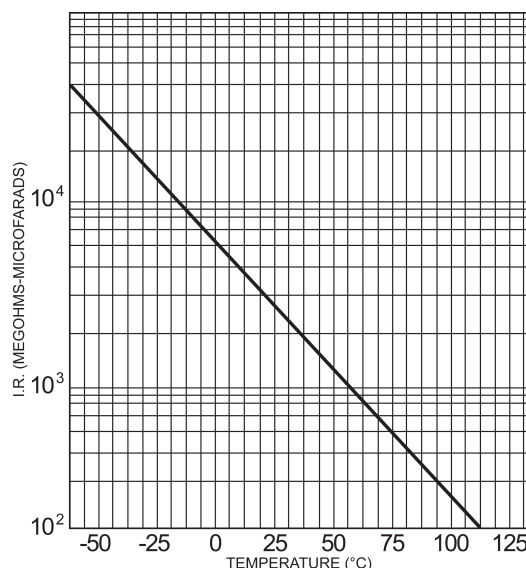
Less than .6% when measured at 1000 Hz for values up to and including 1.0 μ F. Capacitance values greater than 1.0 μ F, are measured at 60 Hz.

DIELECTRIC STRENGTH

Tested at 140% of rated voltage for 1 minute through a limiting resistor of at least 1 ohm per volt.

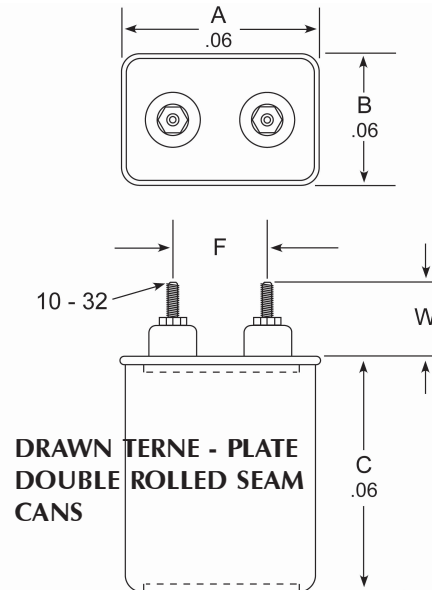
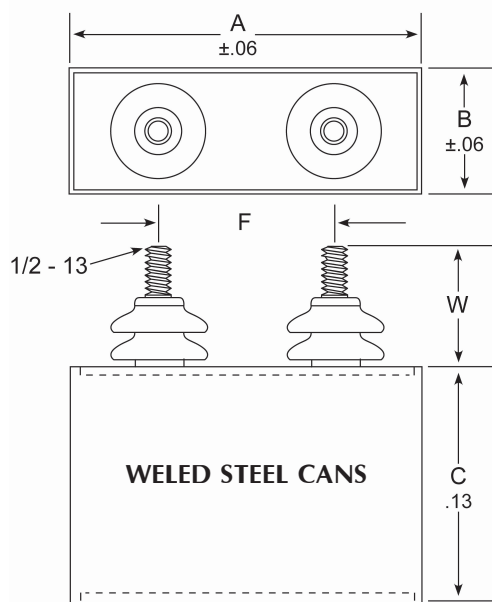
PART NUMBER DESCRIPTION

EXAMPLE:
TYPE DESIGNATION — 30 R 206 K
VOLTAGE —
CAPACITANCE —
TOLERANCE —



ISO 9001:2008 REGISTERED

PAPER/PLASTIC CAPACITORS



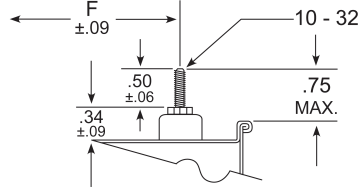
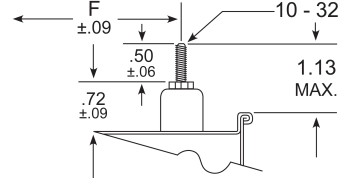
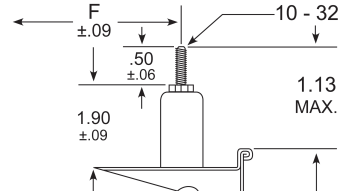
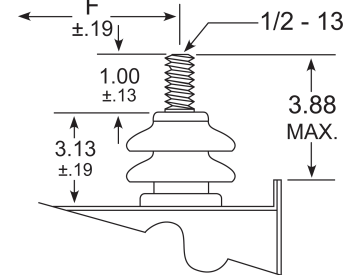
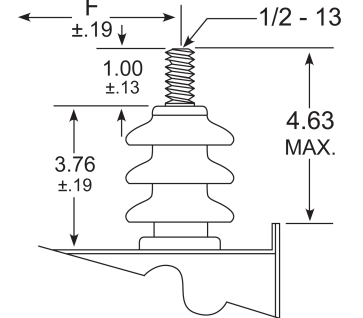
CAP.	A	B	C	F	W	CAP.	A	B	C	F	W
600 VDC						1500 VDC					
0.25	1.81	1.06	1.63	0.81	0.75	0.10	1.81	1.06	1.63	0.81	0.75
0.50	1.81	1.06	1.63	0.81	0.75	0.25	1.81	1.06	1.63	0.81	0.75
0.10	1.81	1.06	2.25	0.81	0.75	0.50	1.81	1.06	2.25	0.81	0.75
0.20	1.81	1.06	2.88	0.81	0.75	1.00	1.81	1.06	2.88	0.81	0.75
4.00	1.81	1.06	3.88	0.81	0.75	2.00	1.81	1.06	3.88	0.81	0.75
6.00	2.50	1.18	3.50	1.13	0.75	4.00	2.5	1.18	4.75	1.13	1.13
8.00	2.50	1.18	4.25	1.13	0.75	6.00	3.75	1.25	3.88	2.00	1.13
10.0	3.75	1.25	3.88	2.00	0.75	8.00	3.75	1.25	4.75	2.00	1.13
12.0	3.75	1.75	3.25	2.00	0.75	10.0	3.75	1.75	4.25	2.00	1.13
15.0	3.75	1.75	3.88	2.00	0.75	12.0	3.75	1.75	4.75	2.00	1.13
20.0	3.75	2.25	4.50	2.00	0.75	15.0	3.75	2.25	4.88	2.00	1.13
25.0	3.75	2.25	5.88	2.00	0.75	20.0	3.75	2.25	5.88	2.00	1.13
30.0	3.75	3.19	4.75	2.00	0.75	25.0	3.75	2.25	6.88	2.00	1.13
1000 VDC						30.0	3.75	3.19	5.88	2.00	1.13
0.25	1.81	1.06	1.63	0.81	0.75	40.0	3.75	3.19	6.88	2.00	1.13
0.50	1.81	1.06	2.13	0.81	0.75	50.0	4.56	3.75	6.88	2.00	1.13
1.00	1.81	1.06	2.13	0.81	0.75	2000 VDC					
2.00	1.81	1.06	2.88	0.81	0.75	50.0	1.81	1.06	2.13	0.81	1.13
4.00	2.50	1.18	3.88	1.13	0.75	1.00	1.81	1.06	2.25	0.81	1.13
6.00	2.50	1.18	4.75	1.13	.75	2.00	2.50	1.18	3.50	1.13	1.13
8.00	3.75	1.75	3.88	2.00	.75	4.00	3.75	1.25	3.88	2.00	1.13
10.0	3.75	1.75	3.88	2.00	.75	6.00	3.75	1.75	3.88	2.00	1.13
12.0	3.75	1.75	4.25	2.00	.75	8.00	3.75	1.75	4.50	2.00	1.13
15.0	3.75	2.25	3.88	2.00	.75	10.0	3.75	2.25	4.50	2.00	1.13
20.0	3.75	2.25	4.88	2.00	.75	12.0	3.75	2.25	4.88	2.00	1.13
25.0	3.75	3.19	4.75	2.00	.75	15.0	3.75	2.25	5.88	2.00	1.13
30.0	3.75	3.19	5.13	2.00	.75	20.0	3.75	3.19	5.88	2.00	1.13
						25.0	4.56	3.75	5.13	2.00	1.13
						30.0	4.56	3.75	5.75	2.00	1.13

PAPER/PLASTIC CAPACITORS

CAP.	A	B	C	F	W	CAP.	A	B	C	F	W
3000 VDC						6000 VDC					
0.50	2.50	1.18	2.25	1.13	1.13	15.0	8.00	4.00	10.50	3.00	1.13
1.00	2.50	1.18	3.50	1.13	1.13	20.0	8.00	4.00	12.25	3.00	1.13
2.00	3.75	1.25	3.88	2.00	1.13	8000 VDC					
4.00	3.75	1.75	4.75	2.00	1.13	0.10	2.50	1.18	2.50	1.13	2.31
6.00	3.75	2.25	5.13	2.00	1.13	0.25	3.75	1.25	3.25	2.00	2.31
8.00	3.75	2.25	6.50	2.00	1.13	0.50	3.75	1.75	4.25	2.00	2.31
10.0	3.75	3.19	5.13	2.00	1.13	1.00	3.75	2.25	5.25	2.00	2.31
12.0	3.75	3.19	6.25	2.00	1.13	2.00	4.56	3.75	5.13	2.00	2.31
15.0	3.75	3.75	6.00	2.00	1.13	4.00	4.56	3.75	8.00	2.00	2.31
20.0	4.56	3.75	7.00	2.00	1.13	6.00	4.56	3.75	10.50*	2.00	2.31
25.0	4.56	3.75	7.50	2.00	1.13	8.00	8.00	4.00	9.75	3.00	2.31
30.0	4.56	3.75	9.63	2.00	1.13	10.0	8.00	4.00	11.25	3.00	2.31
4000 VDC						12.0	13.50	4.13	8.50	6.75	2.31
0.50	2.50	1.18	3.50	1.13	1.13	15.0	13.50	4.13	10.50	6.75	2.31
1.00	2.50	1.18	3.88	1.13	1.13	10000 VDC					
2.00	3.75	1.25	3.88	2.00	1.13	0.10	3.75	1.25	3.88	2.00	2.31
4.00	3.75	1.75	4.75	2.00	1.13	0.25	3.75	1.75	3.88	2.00	2.31
6.00	3.75	2.25	6.50	2.00	1.13	0.50	3.75	2.25	4.50	2.00	2.31
8.00	3.75	2.25	6.00	2.00	1.13	1.00	3.75	2.25	6.50	2.00	2.31
10.0	3.75	3.19	5.50	2.00	1.13	2.00	4.56	3.75	6.75	2.00	2.31
12.0	3.75	3.19	5.88	2.00	1.13	4.00	4.56	3.75	10.50*	2.00	2.31
15.0	4.56	3.75	7.50	2.00	1.13	6.00	8.00	4.00	10.00	3.00	2.31
20.0	4.56	3.75	9.00	2.00	1.13	8.00	13.50	4.13	8.50	6.75	2.31
25.0	4.56	3.75	10.50*	2.00	1.13	10.0	13.50	4.13	10.00	6.75	2.31
5000 VDC						12.0	13.50	4.13	11.38	6.75	2.31
0.50	2.50	1.18	3.25	1.13	1.13	12500 VDC					
1.00	3.75	1.25	3.88	2.00	1.13	0.10	3.75	1.75	3.88	2.00	2.31
2.00	3.75	2.25	3.88	2.00	1.13	0.25	3.75	2.25	3.88	2.00	2.31
4.00	3.75	2.25	5.88	2.00	1.13	0.50	3.75	3.19	5.50	2.00	2.31
6.00	3.75	3.19	6.50	2.00	1.13	1.00	4.56	3.75	6.00	2.00	2.31
8.00	4.56	3.75	5.88	2.00	1.13	2.00	4.56	3.75	10.50*	2.00	2.31
10.0	4.56	3.75	7.00	2.00	1.13	4.00	8.00	4.00	10.50	3.00	2.31
12.0	4.56	3.75	7.50	2.00	1.13	6.00	13.50	4.13	10.00	6.75	2.31
15.0	4.56	3.75	9.25	2.00	1.13	15000 VDC					
18.0	4.56	3.75	10.50*	2.00	1.13	0.05	3.75	1.75	3.50	2.00	2.31
20.0	8.00	4.00	8.25	3.00	1.13	0.10	3.75	1.75	3.88	2.00	2.31
25.0	8.00	4.00	9.50	3.00	1.13	0.25	3.75	2.25	5.13	2.00	2.31
30.0	8.00	4.00	11.25	3.00	1.13	0.50	3.75	3.19	6.50	2.00	2.31
6000 VDC						1.00	4.56	3.75	8.50	2.00	2.31
0.10	2.50	1.18	2.50	1.13	1.13	2.00	8.00	4.00	9.00	3.00	2.31
0.25	2.50	1.18	3.25	1.13	1.13	4.00	13.50	4.13	9.50	6.75	2.31
0.50	3.75	1.25	3.88	2.00	1.13	* Available In Flat Bottom Can Only					
1.00	3.75	1.75	4.50	2.00	1.13						
2.00	3.75	2.25	5.88	2.00	1.13						
4.00	4.56	3.75	5.13	2.00	1.13						
6.00	4.56	3.75	7.88	2.00	1.13						
8.00	4.56	3.75	9.00	2.00	1.13						
10.0	4.56	3.75	10.50*	2.00	1.13						
12.0	8.00	4.00	8.50	3.00	1.13						

ISO 9001:2008 REGISTERED

PAPER/PLASTIC CAPACITORS

CAP.	A	B	C	F	W	CERAMIC BUSHING DETAILS
20000 VDC						Terminal rated up to 1000 VDC 
0.02	3.75	1.75	3.25	2.00	2.31	
0.05	3.75	2.25	3.88	2.00	2.31	
0.10	3.75	2.25	4.88	2.00	2.31	
0.25	4.56	3.75	4.75	2.00	2.31	
0.50	4.56	3.75	7.50	2.00	2.31	
1.00	8.00	4.00	8.50	3.00	2.31	
2.00	13.50	4.13	9.25	6.75	2.31	
30000 VDC						Terminal rated from 1500 VDC to 6000 VDC 
0.02	3.75	3.19	4.00	**	3.88	
0.05	3.75	3.19	5.50	**	3.88	
0.10	4.56	3.75	6.25	**	3.88	
0.25	4.56	3.75	8.75	**	3.88	
0.50	8.00	4.00	9.25	3.00	3.88	
1.00	13.50	4.13	11.00	6.75	3.88	
40000 VDC						Terminal rated from 8000 VDC to 20000 VDC 
0.02	4.56	3.75	4.00	**	4.63	
0.05	4.56	3.75	5.50	**	4.63	
0.10	4.56	3.75	7.25	**	4.63	
0.25	4.56	3.75	10.50*	**	4.63	
0.50	8.00	4.00	10.00	3.00	4.63	
1.00	13.50	4.13	11.375	6.75	4.63	
50000 VDC						Terminal rated up to 30000 VDC 
0.02	4.56	3.75	4.50	**	4.63	
0.05	4.56	3.75	5.50	**	4.63	
0.10	4.56	3.75	9.00	**	4.63	
0.25	8.00	4.00	11.25	3.00	4.63	
0.50	13.50	4.13	11.75	6.75	4.63	
1.00						
* Available in flat bottom can only. ** Available with single bushing and ground stud only.						Terminal rated from 30000 VDC to 50000 VDC 

ISO 9001:2008 REGISTERED

METALIZED POLYESTER

TYPES

- 247 - Case Grounded
- 248 - Case Floating

TOLERANCE

W	± 1%
U	± 2%
J	± 5%
K	± 10%
M	± 20%

VOLTAGE

1J	150 VDC
2	200 VDC
4	400 VDC
6	600 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

MODELS

AZ-CAP hermetically sealed tubular capacitor are available in optional mounting and terminal configurations. See detailed "Mounting & Terminal Specification Sheet".

LEADS

Standard lead are solid wire, 60/40 solder dipped for superior solderability.

CASE DIA.	AWG	LEAD MATERIAL
.175 & .195	24	OXYGEN FREE COPPER
.235 & .312	22	OXYGEN FREE COPPER
.400 & UP	20	COPPER CLAD STEEL

Weldable and solderable "dumet" leads, which consist of gold-plated copper-clad, nickel-iron core wire, are available by adding the prefix "D" to the AZ-CAP part number.

Weldable and solderable "NICKEL" leads with 60/40 solder dipped finished are available by adding the prefix "N" to the AZ-CAP part number.

CHARACTERISTICS

Az- Cap type "248" metalized polyester capacitor will meet or exceed the requirements of MIL-C-18312.

OPERATING TEMPERATURE RANGE

-55 To 125°C at full rated voltage

DIELECTRIC STRENGTH

Tested at 200% of rated voltage for 1 minute minimum.

INSULATION RESISTANCE AT 25°C

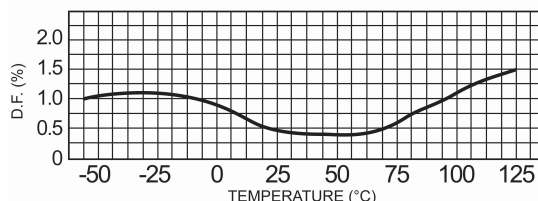
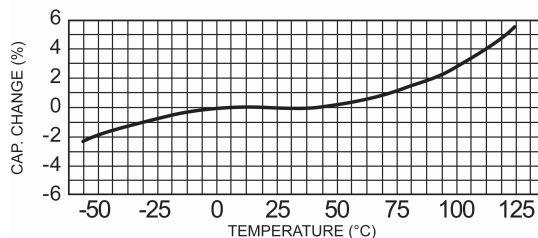
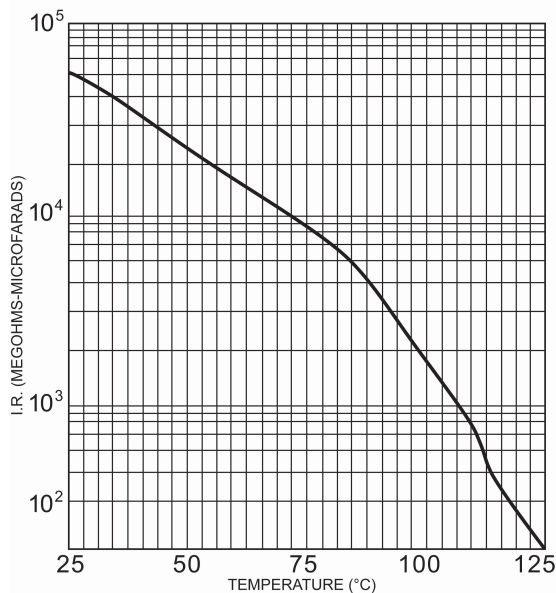
The product of I.R. in megohms and the capacitance in microfarads shall be 50,000 megohms-microfarads minimum. However, I.R. need not exceed 100,000 megohms.

DISSIPATION FACTOR 25°C

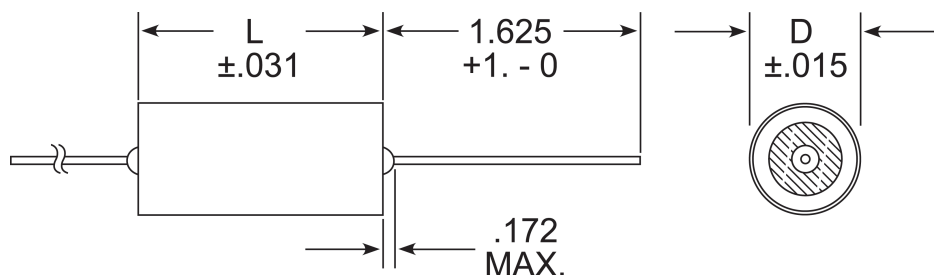
Less than 1% when measured at 1000 Hz for values up to and including 1.0 μ F. Capacitance values greater than 1.0 μ F, are measured at 60 Hz.

PART NUMBER DESCRIPTION

EXAMPLE: 248 K 4 255 -D
 TYPE DESIGNATION — 248
 TOLERANCE — K
 VOLTAGE — 4
 CAPACITANCE — 255
 MODEL — -D



METALIZED POLYESTER NON INDUCTIVE, SELF HEALING



When ordering Type "247" grounded case capacitors, change the part number accordingly, and deduct .062" from the length dimension.

Should an insulating sleeve be required, add the suffix "-3" to the AZ-CAP part number and allow an additional .016" and .062" to the "D" and "L" dimensions respectively.

Intermediate capacitance values are available in the same case size as the next higher value.

μF	150 VDC			200 VDC			400 VDC			600 VDC			μF
	D	L	P/N	D	L	P/N	D	L	P/N	D	L	P/N	
.010				.235	.750	248_2103	.312	.875	248_4103	.312	.875	248_6103	.010
.012				.235	.750	248_2123	.312	.875	248_4123	.312	.875	248_6123	.012
.015				.235	.750	248_2153	.312	.875	248_4153	.312	.875	248_6153	.015
.018				.235	.750	248_2183	.312	.875	248_4183	.312	1.125	248_6183	.018
.022				.235	.750	248_2223	.312	.875	248_4223	.312	1.125	248_6223	.022
.027				.235	.750	248_2273	.312	1.125	248_4273	.312	1.125	248_6273	.027
.033				.235	.750	248_2333	.312	1.125	248_4333	.312	1.125	248_6333	.033
.039				.312	.875	248_2393	.400	1.125	248_4393	.400	1.125	248_6393	.039
.047				.312	.875	248_2473	.400	1.125	248_4473	.400	1.125	248_6473	.047
.056				.312	.875	248_2563	.400	1.125	248_4563	.400	1.125	248_6563	.056
.068				.312	.875	248_2683	.400	1.125	248_4683	.400	1.125	248_6683	.068
.082				.312	.875	248_2823	.500	1.125	248_4823	.500	1.125	248_6823	.082
.100				.312	.875	248_2104	.500	1.125	248_4104	.500	1.125	248_6104	.100
.120				.312	1.125	248_2124	.500	1.125	248_4124	.562	1.125	248_6124	.120
.150				.312	1.125	248_2154	.500	1.125	248_4154	.562	1.125	248_6154	.150
.180				.400	.875	248_2184	.562	1.375	248_4184	.562	1.375	248_6184	.180
.220				.400	.875	248_2224	.562	1.375	248_4224	.562	1.375	248_6224	.220
.270				.400	1.125	248_2274	.562	1.625	248_4274	.562	1.625	248_6274	.270
.330				.400	1.125	248_2334	.562	1.625	248_4334	.562	1.625	248_6334	.330
.390				.500	1.125	248_2394	.670	1.625	248_4394	.670	1.625	248_6394	.390
.470				.500	1.125	248_2474	.670	1.625	248_4474	.670	1.625	248_6474	.470
.560				.500	1.125	248_2564	.670	1.875	248_4564	.670	1.875	248_6564	.560
.680				.500	1.125	248_2684	.670	1.875	248_4684	.670	1.875	248_6684	.680
.820				.562	1.125	248_2824	.750	1.875	248_4824	1.00	1.875	248_6824	.820
1.00				.562	1.125	248_2105	.750	1.875	248_4105	1.00	1.875	248_6105	1.00
1.50				.562	1.625	248_2155	1.00	1.875	248_4155	1.00	1.875	248_6155	1.50
2.00				.670	1.625	248_2205	1.00	1.875	248_4205	1.00	2.125	248_6205	2.00
2.50				.670	1.625	248_2255	1.00	2.625	248_4255	1.00	2.625	248_6255	2.50
3.00	.750	1.875	248_1J305	.670	1.875	248_2305	1.00	2.625	248_4305				3.00
4.00	.750	1.875	248_1J405	.750	1.875	248_2405							4.00
5.00	1.00	1.875	248_1J505	1.00	1.875	248_2505							5.00
6.00	1.00	2.375	248_1J605	1.00	1.875	248_2605							6.00
8.00				1.00	1.875	248_2805							8.00
10.0				1.00	2.375	248_2106							10.0
12.0				1.00	2.625	248_2126							12.0

ISO 9001:2008 REGISTERED

METALIZED POLYESTER WRAP & FILL

STYLE

WR - Wrap & Fill, Round
WF - Wrap & Fill, Flat

TYPES

70 - Miniature Metalized Polyester
90 - Ultra Miniature Metalized Polyester

TOLERANCE

W	± 1%
U	± 2%
J	± 5%
K	± 10%
M	± 20%

VOLTAGE (DC rating)

0J	50 VDC
1	100 VDC
2	200 VDC
4	400 VDC
6	600 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

LEADS

Standard lead are solid wire tinned for solderability. Flat style capacitors have same gauge leads as equivalent value round style.

	CASE DIA.	AWG	LEAD MATERIAL
WR & WF90	Up to .20	26	COPPER CLAD STEEL
	.21 to .34	24	COPPER CLAD STEEL
	.35 to .46	22	COPPER CLAD STEEL
	.47 and up	20	COPPER CLAD STEEL
WR & WF70	Up to .19	24	OXYGEN FREE COPPER
	.22 to .26	22	OXYGEN FREE COPPER
	.39 and up	20	COPPER CLAD STEEL

CHARACTERISTICS

MISSING INFO

OPERATING TEMPERATURE RANGE

TYPE 70 -55 to 125°C at full rated voltage
TYPE 90 -55 to 125°C with 50 % voltage derating
-55 to 85°C at full rated voltage

DIELECTRIC STRENGTH

Tested at 150% of rated voltage for 1 minute minimum through a limiting resistor of at least 1 ohm per volt.

INSULATION RESISTANCE AT 25°C

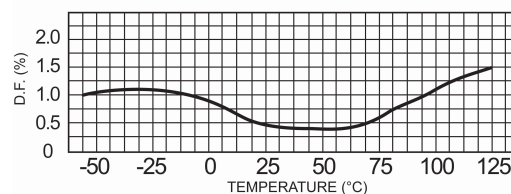
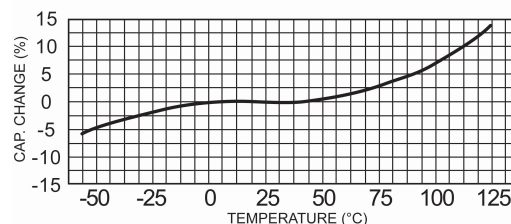
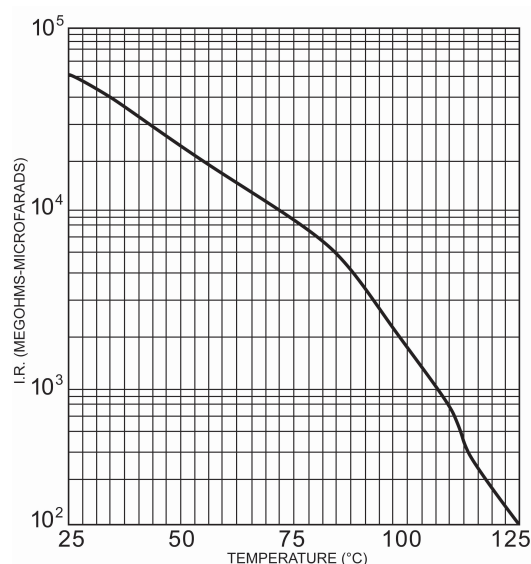
The product of insulation resistance in megohms and capacitance in microfarads shall be 25,000 megohms-microfarads minimum. However, I.R. need never exceed 50,000 megohms.

DISSIPATION FACTOR 25°C

Less than 1% when measured at 1000 Hz for values up to and including 1.0 μ F. Capacitance values greater than 1.0 μ F, are measured at 60 Hz.

PART NUMBER DESCRIPTION

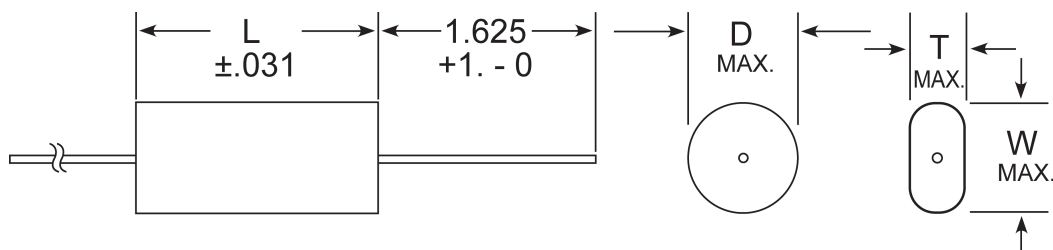
EXAMPLE: WR 70 K 2 104
STYLE _____
TYPE DESIGNATION _____
TOLERANCE _____
VOLTAGE _____
CAPACITANCE _____



ISO 9001:2008 REGISTERED

METALIZED POLYESTER WRAP & FILL

TYPE WR AND WF70



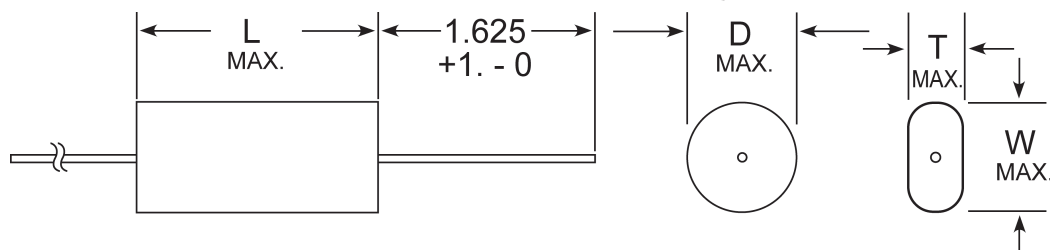
MINIATURE
ROUND OR FLAT
CONFIGURATION
NON INDUCTIVE
SELF HEALING

μF	50 VDC				200 VDC				400 VDC				600 VDC				μF
	D	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	
.010					.19	.69			.19	.69			.30	.69	.25	.37	.010
.012					.19	.69			.19	.69			.36	.69	.28	.41	.012
.015					.19	.69			.22	.69			.36	.69	.28	.41	.015
.018					.19	.69			.25	.69	.19	.28	.33	.81	.25	.37	.018
.022					.19	.69			.25	.69	.22	.31	.36	.81	.28	.41	.022
.027					.19	.69			.30	.69	.22	.34	.36	.81	.31	.44	.027
.033					.19	.69			.25	.81	.19	.34	.42	.81	.31	.47	.033
.039					.19	.69			.30	.81	.22	.34	.42	.81	.34	.50	.039
.047	.19	.69			.22	.69			.33	.81	.25	.37	.36	1.06	.31	.41	.047
.056	.19	.69			.22	.69			.33	.81	.25	.37	.39	1.06	.31	.44	.056
.068	.22	.69	.19	.28	.25	.69	.19	.28	.36	.81	.28	.41	.42	1.06	.34	.47	.068
.082	.22	.69	.19	.28	.25	.69	.22	.31	.39	.81	.31	.44	.45	1.06	.37	.50	.082
.10	.25	.69	.22	.31	.25	.81	.19	.28	.36	1.06	.25	.44	.51	1.06	.41	.56	.10
.12	.25	.69	.22	.31	.25	.81	.22	.31	.39	1.06	.28	.44	.55	1.06	.47	.62	.12
.15	.30	.69	.25	.34	.30	.81	.22	.34	.42	1.06	.31	.47	.61	1.06	.53	.69	.15
.18	.33	.69	.25	.38	.33	.81	.25	.37	.45	1.06	.34	.50	.55	1.31	.47	.66	.18
.22	.36	.69	.25	.38	.33	.81	.25	.41	.48	1.06	.37	.56	.48	1.81	.37	.56	.22
.27	.39	.69	.31	.44	.36	.81	.28	.44	.55	1.06	.47	.62	.55	1.81	.44	.62	.27
.33	.42	.69	.34	.47	.39	.81	.31	.44	.58	1.06	.50	.69	.58	1.81	.50	.69	.33
.39	.45	.69	.38	.50	.42	.81	.34	.47	.55	1.31	.47	.66	.66	1.81	.53	.72	.39
.47	.36	.94	.31	.43	.39	1.06	.28	.44	.48	1.81	.37	.56	.69	1.81	.59	.78	.47
.56	.39	.94	.34	.47	.42	1.06	.31	.47	.55	1.81	.44	.62	.75	1.81	.62	.84	.56
.68	.45	.94	.37	.50	.45	1.06	.34	.50	.58	1.81	.47	.69	.81	1.81	.69	.91	.68
.82	4.8	.94	.41	.53	.48	1.06	.37	.53	.61	1.81	.53	.72	.91	1.81	.78	.97	.82
1.0	.51	.94	.44	.56	.51	1.06	.47	.62	.69	1.81	.59	.78	.97	1.81	.84	1.06	1.0
1.5	.48	1.31	.38	.56	.54	1.31	.47	.66	.84	1.81	.72	.91					1.5
2.0	.55	1.31	.44	.62	.51	1.81	.44	.62	.94	1.81	.81	1.03					2.0
3.0	.66	1.31	.53	.72	.61	1.81	.50	.72	1.00	2.31	.87	1.06					3.0
4.0	.69	1.56	.56	.75	.72	1.81	.59	.78	1.06	2.56	.94	1.12					4.0
5.0	.75	1.56	.62	.81	.78	1.81	.66	.87									5.0
7.0	.78	1.81	.59	.78	.91	1.81	.78	.97									7.0
8.0	.84	1.81	.72	.91	.97	1.81	.84	1.03									8.0
10.0	.94	1.81	.81	1.0	.94	2.31	.81	1.00									10.0
12.0					.97	2.56	.84	1.03									12.0

ISO 9001:2008 REGISTERED

METALIZED POLYESTER WRAP & FILL

TYPE WR AND WF70



ULTRA MINIATURE
ROUND OR FLAT
CONFIGURATION
NON INDUCTIVE
SELF HEALING

	100 VDC				200 VDC				400 VDC				600 VDC				
μF	D	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	μF
.001													.20	.45	.14	.23	.001
.0022													.20	.45	.14	.23	.0022
.0033									.21	.45	.15	.25	.20	.58	.14	.23	.0033
.0056									.21	.45	.15	.25	.20	.58	.14	.23	.0056
.0082					.20	.45	.14	.23	.20	.58	.14	.23	.23	.58	.17	.27	.0082
.010					.20	.45	.14	.23	.20	.58	.14	.23	.25	.58	.19	.28	.010
.012					.20	.45	.14	.14	.20	.58	.14	.23	.26	.58	.20	.30	.012
.015					.20	.45	.14	.14	.20	.58	.14	.23	.29	.58	.23	.32	.015
.018	.20	.45	.14	.23	.21	.45	.15	.14	.22	.58	.16	.25	.31	.58	.25	.34	.018
.022	.20	.45	.14	.23	.20	.58	.14	.25	.23	.58	.17	.27	.33	.58	.27	.37	.022
.027	.20	.45	.14	.23	.20	.58	.14	.23	.25	.58	.19	.28	.31	.73	.25	.34	.027
.033	.20	.45	.14	.23	.20	.58	.14	.23	.27	.58	.21	.30	.33	.73	.27	.36	.033
.039	.20	.45	.14	.23	.20	.58	.14	.23	.28	.58	.22	.32	.31	.83	.25	.35	.039
.047	.20	.45	.14	.23	.20	.58	.14	.23	.30	.58	.24	.34	.33	.83	.30	.37	.047
.056	.20	.45	.14	.23	.22	.58	.16	.25	.33	.58	.27	.36	.36	.83	.30	.39	.056
.068	.21	.45	.15	.24	.23	.58	.17	.27	.29	.73	.23	.32	.39	.83	.33	.42	.068
.082	.22	.45	.16	.25	.25	.58	.19	.28	.31	.73	.25	.34	.42	.83	.36	.46	.082
.100	.20	.58	.14	.23	.27	.58	.21	.30	.33	.73	.27	.37	.42	1.00	.36	.45	.100
.120	.20	.58	.14	.23	.28	.58	.22	.32	.31	.83	.25	.35	.40	1.22	.29	.46	.120
.150	.20	.58	.14	.23	.31	.58	.25	.34	.34	.83	.28	.38	.43	1.22	.33	.49	.150
.180	.20	.58	.14	.23	.33	.58	.27	.37	.37	.83	.31	.39	.47	1.22	.36	.53	.180
.220	.21	.58	.15	.25	.29	.73	.23	.33	.40	.83	.34	.44	.51	1.22	.40	.57	.220
.270	.23	.58	.17	.27	.31	.73	.25	.34	.44	.83	.38	.47	.56	1.22	.45	.62	.270
.330	.25	.58	.19	.28	.35	.73	.29	.38	.43	1.00	.37	.46	.60	1.22	.50	.66	.330
.390	.26	.58	.20	.30	.32		.26	.35	.41	1.23	.39	.42	.58	1.50	.48	.64	.390
.470	.28	.58	.22	.32	.35	.83	.29	.38	.44	1.23	.33	.50	.64	1.50	.53	.70	.470
.560	.30	.58	.24	.33	.37	.83	.31	.41	.47	1.23	.36	.53	.62	1.75	.52	.68	.560
.680	.33	.58	.27	.36	.40	.83	.34	.44	.51	1.23	.40	.57	.63	1.95	.52	.69	.680
.820	.29	.73	.23	.32	.44	.83	.38	.47	.55	1.23	.44	.61	.69	1.95	.58	.75	.820
1.00	.31	.73	.25	.34	.43	1.00	.37	.46	.60	1.23	.49	.66	.75	1.95	.64	.81	1.00
1.20	.33	.73	.27	.37	.41	1.22	.30	.47	.58	1.50	.47	.64	.81	1.95	.71	.87	1.20
1.50	.32	.83	.26	.35	.44	1.22	.34	.50	.64	1.50	.53	.70	.90	1.95	.80	.96	1.50
1.80	.34	.83	.28	.38	.48	1.22	.37	.54	.63	1.75	.52	.69	.97	1.95	.85	1.05	1.80
2.00	.36	.83	.30	.39	.50	1.22	.40	.56	.61	1.95	.50	.67	1.03	2.23	.91	1.11	2.00
3.00	.42	.83	.36	.46	.60	1.22	.49	.66	.73	1.95	.62	.79					3.00
4.00	.43	1.00	.37	.46	.60	1.50	.49	.66	1.10	2.23	.98	1.18					4.00
5.00	.41	1.22	.31	.47	.60	1.75	.50	.66									5.00
6.00	.44	1.22	.34	.50	.64	1.75	.54	.70									6.00
7.00	.48	1.22	.38	.54	.68	1.75	.57	.74									7.00
8.00	.50	1.22	.40	.56	.69	1.95	.58	.75									8.00
9.00	.54	1.22	.43	.59	.83	1.95	.74	.91									9.0
10.0	.62	1.22	.51	.68	.86	1.95	.75	.92									10.0
12.0	.67	1.22	.56	.73	.92	1.95	.83	1.00									12.0
15.0	.66	1.50	.55	.72	1.03	1.95	.92	1.09									15.0
18.0	.71	1.50	.61	.77	1.08	1.95	.99	1.16									18.0
20.0	.68	1.75	.57	.73	1.17	1.95	1.06	1.23									20.0
30.0	.73	1.95	.61	.81	1.24	2.23	1.17	1.37									30.0
40.0	.77	2.23	.65	.85													40.0
50.0	.85	2.23	.73	.93													50.0

HIGH VOLTAGE METALIZED POLYESTER

STYLE

Round Wrap & Fill

TYPE

High voltage metalized polyester dielectric, tape wrapped with epoxy endfill. Typical applications include voltage multiplier, high voltage filters, and surge suppressors. AZ-CAP type "WR95" capacitors are manufactured using the finest material and the state of the art assembly techniques.

TOLERANCE

W	± 1%
U	± 2%
J	± 5%
K	± 10%
M	± 20%

VOLTAGE (DC rating)

2	2000 VDC
4	4000 VDC
6	6000 VDC
8	8000 VDC
10	10000 VDC
15	15000 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

LEADS

Standard leads are solid wire, tinned for solderability.

CASE DIA.	AWG
.40 & below	22
Above .40	20

CHARACTERISTICS

MISSING INFO

OPERATING TEMPERATURE RANGE

-55 To 125°C *

* Full voltage rated at 85°C

Derated at 125°C by 40%

INSULATION RESISTANCE AT 25°C

The product of insulation resistance in megohms and capacitance in microfarads shall be 25,000 megohms-microfarads minimum. However I.R. need not exceed 50,000 megohms.

DISSIPATION FACTOR AT 25°C

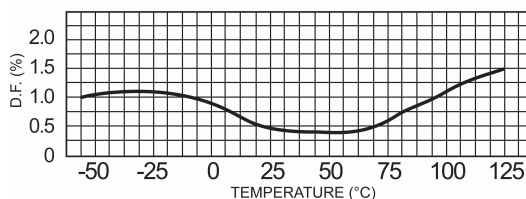
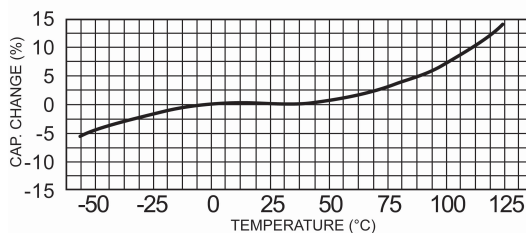
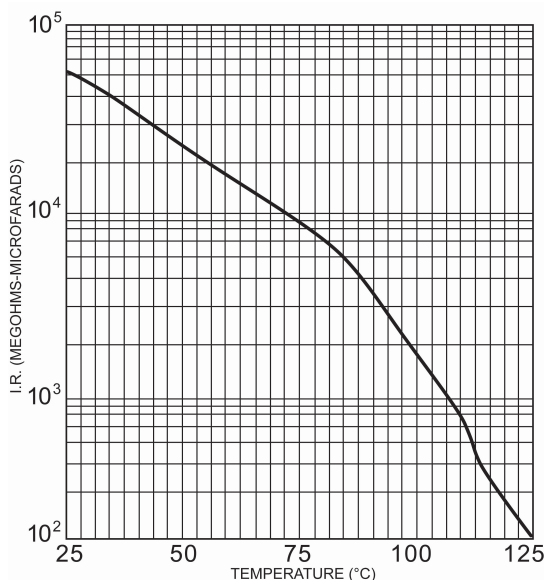
Less than 1% when measured at 1000 Hz and 25°C.

DIELECTRIC STRENGTH

1.2 times the rated voltage, applied between both terminals, for 2 minutes maximum with a current limiting resistor of at least 1 ohm per volt.

PART NUMBER DESCRIPTION

EXAMPLE: WR 95 K 2 104
 STYLE _____
 TYPE DESIGNATION _____
 TOLERANCE _____
 VOLTAGE _____
 CAPACITANCE _____

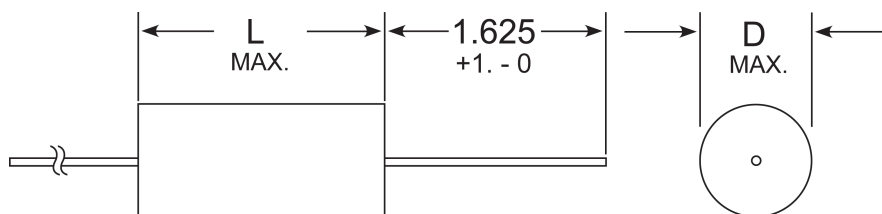


ISO 9001:2008 REGISTERED

HIGH VOLTAGE METALIZED POLYESTER

WRAP & FILL

TYPE "WR95"



SIZE EFFICIENT
ROUND
CONFIGURATION
NON INDUCTIVE
SELF HEALING

μF	2000 VDC		4000 VDC		6000 VDC		8000 VDC		10000 VDC		15000 VDC		μF
	D	L	D	L	D	L	D	L	D	L	D	L	
.0010	0.25	1.19	0.28	.119	.30	1.56	0.30	1.94	0.31	2.31	0.43	3.13	.0010
.0012	0.25	1.19	0.28	.119	.30	1.56	0.33	1.94	0.35	2.31	0.49	3.13	.0012
.0015	0.25	1.19	0.30	.119	.30	1.56	0.33	1.94	0.35	2.31	0.49	3.13	.0015
.0018	0.25	1.19	0.33	.119	.33	1.56	0.36	1.94	0.39	2.31	0.58	3.13	.0018
.0022	0.25	1.19	0.33	.119	.33	1.56	0.36	1.94	0.39	2.31	0.58	3.13	.0022
.0027	0.29	1.19	0.33	.119	.37	1.56	0.41	1.94	0.44	2.31	0.68	3.13	.0027
.0033	0.29	1.19	0.33	.119	.37	1.56	0.41	1.94	0.44	2.31	0.68	3.13	.0033
.0039	0.31	1.19	0.37	.119	.42	1.56	0.46	1.94	0.50	2.31	0.78	3.13	.0039
.0047	0.31	1.19	0.37	.119	.42	1.56	0.46	1.94	0.50	2.31	0.78	3.13	.0047
.0056	0.31	1.19	0.42	.119	.48	1.56	0.53	1.94	0.60	2.31	1.02	3.13	.0056
.0068	0.31	1.19	0.42	.119	.48	1.56	0.53	1.94	0.60	2.31	1.02	3.13	.0068
.0082	0.35	1.19	0.47	.119	.57	1.56	0.64	1.94	0.70	2.31	1.11	3.13	.0082
.010	0.35	1.19	0.47	.119	0.57	1.56	0.64	1.94	0.70	2.31	1.11	3.13	.010
.012	0.38	1.19	0.57	.119	0.64	1.56	0.75	1.94	0.85	2.31	1.35	3.13	.012
.015	0.38	1.19	0.57	.119	0.64	1.56	0.75	1.94	0.85	2.31	1.35	3.13	.015
.018	0.46	1.19	0.44	.182	0.78	1.56	0.91	1.94	1.00	2.31	1.61	3.13	.018
.022	0.46	1.19	0.44	.182	0.78	1.56	0.91	1.94	1.00	2.31	1.61	3.13	.022
.027	0.52	1.19	0.51	.182	0.62	2.56	1.10	1.94	0.76	3.88			.027
.033	0.52	1.19	0.51	.182	0.62	2.56	1.10	1.94	0.76	3.88			.033
.039	0.59	1.19	0.60	.182	0.71	2.56	0.80	3.25					.039
.047	0.59	1.19	0.60	.182	0.71	2.56	0.80	3.25					.047
.056	0.51	1.82	0.70	.182	0.86	2.56	0.97	3.25					.056
.068	0.51	1.82	0.70	.182	0.86	2.56	0.97	3.25					.068
.082	0.58	1.82	0.85	.182	1.00	2.56							.082
.100	0.58	1.82	0.85	.182	1.10	2.56							.100
.120	0.69	1.82	1.00	.182	1.20	2.56							.120
.150	0.69	1.82	1.00	.182	1.20	2.56							.150
.180	0.81	1.82	1.19	.182									.180
.220	0.81	1.82	1.19	.182									.220
.270	1.00	1.82	1.30	.182									.270
.330	1.00	1.82	1.30	.182									.330
.390	1.25	1.82											.390
.470	1.25	1.82											.470
.560	1.35	1.82											.560
.680	1.50	1.82											.680

ISO 9001:2008 REGISTERED

METALIZED POLYCARBONATE WRAP & FILL

STYLE

WR - Wrap & Fill, Round
WF - Wrap & Fill, Flat

TYPE

74 - Miniature Metalized Polycarbonate

TOLERANCE

W	± 1%
U	± 2%
J	± 5%
K	± 10%
M	± 20%

VOLTAGE

0J	50 VDC
1	100 VDC
2	200 VDC
4	400 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

LEADS

Standard leads are solid wire, tinned for solderability. Flat style capacitors have some gauge leads as equivalent value round style.

NOMINAL CASE DIA.	AWG	LEAD MATERIAL
Up to .20	24	OXYGEN FREE COPPER
.21 to .37	22	OXYGEN FREE COPPER
.38 and up	20	COPPER CLAD STEEL

CHARACTERISTICS

AZ-CAP metalized polycarbonate capacitors offer excellent capacitance stability over a wide frequency and temperature range.

OPERATING TEMPERATURE RANGE

-55 to 125°C at full rated voltage.

INSULATION RESISTANCE AT 25°C

The product of insulation resistance in megohms and capacitance in microfarads shall be 100,000 megohms-microfarads minimum. However I.R. need never exceed 200,000 megohms.

DISSIPATION FACTOR AT 25°C

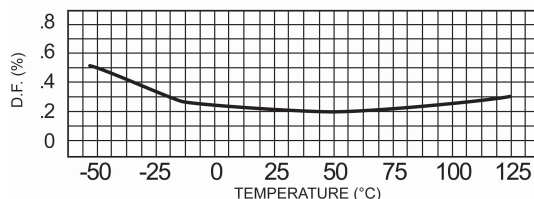
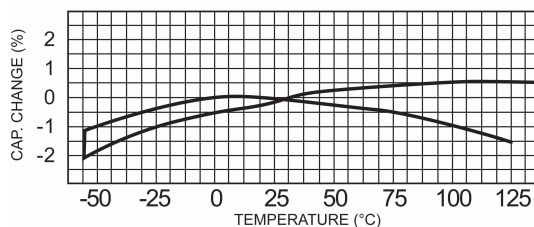
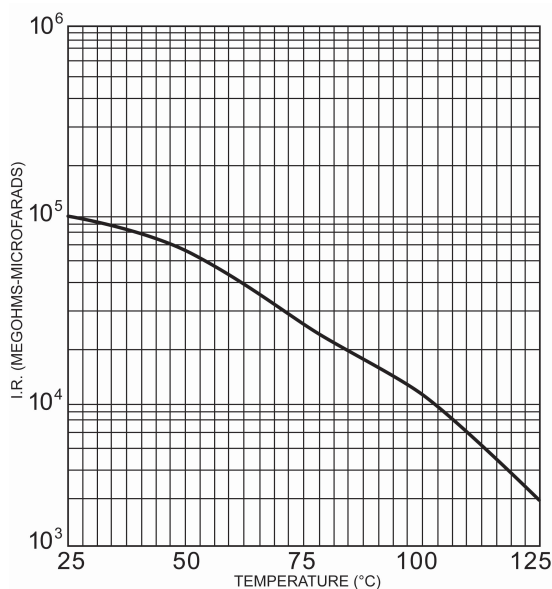
Less than .3% when measured at 1000 Hz and for values up to and including 1.0 μ F. Capacitance values greater than 1.0 μ F are measured at 60 Hz.

DIELECTRIC STRENGTH

Tested at 200% of rated voltage for 1 minute through a limiting resistor of at least 1 ohm per volt. Conforms to applicable portions of MIL-C-39022 for style CHR10.

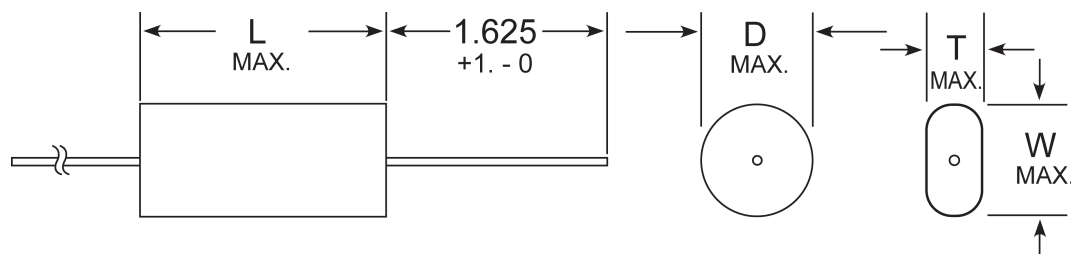
PART NUMBER DESCRIPTION

EXAMPLE: WR 74 K 2 104
STYLE _____
TYPE DESIGNATION _____
TOLERANCE _____
VOLTAGE _____
CAPACITANCE _____



METALIZED POLYCARBONATE WRAP & FILL

TYPE WR AND WF74



MINIATURE
ROUND OR FLAT
CONFIGURATION
NON INDUCTIVE
SELF HEALING

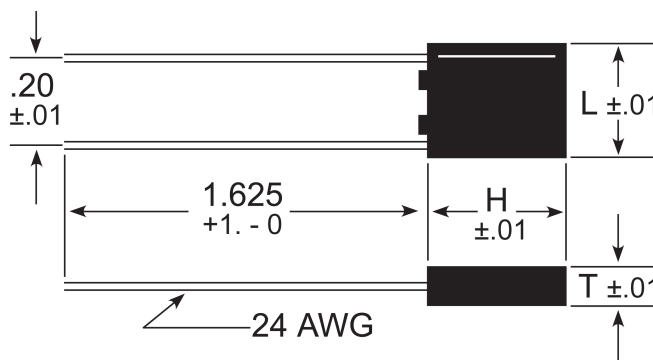
μF	50 VDC				200 VDC				400 VDC				600 VDC				μF
	D	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	
.010	.17	.48			.17	.48			.17	.48			.23	.61	.17	.26	.010
.022	.17	.48			.17	.48			.17	.48			.31	.61	.23	.36	.022
.033	.17	.48			.17	.48			.20	.48	.15	.23	.31	.81	.23	.36	.033
.039	.17	.48			.17	.48			.20	.61	.14	.23	.32	.81	.24	.37	.039
.047	.17	.48			.17	.48			.22	.61	.16	.25	.34	.81	.26	.39	.047
.056	.17	.48			.17	.48			.23	.61	.17	.26	.36	.81	.28	.41	.056
.068	.17	.48			.17	.48			.25	.61	.19	.28	.38	.81	.30	.43	.068
.082	.17	.61			.20	.61	.14	.23	.23	.81	.17	.26	.40	.81	.32	.45	.082
.100	.17	.61			.20	.61	.14	.23	.24	.81	.18	.27	.36	1.06	.28	.41	.100
.120	.20	.61	.14	.23	.22	.61	.16	.25	.26	.81	.20	.29	.40	1.06	.32	.45	.120
.150	.22	.61	.16	.25	.24	.61	.18	.27	.29	.81	.21	.34	.40	1.31	.32	.45	.150
.180	.23	.61	.17	.26	.26	.61	.20	.29	.32	.81	.24	.37	.44	1.31	.33	.50	.180
.220	.24	.61	.18	.27	.29	.61	.23	.32	.34	.81	.26	.39	.50	1.31	.39	.56	.220
.270	.25	.61	.19	.28	.31	.61	.23	.36	.36	.81	.28	.41	.52	1.31	.41	.58	.270
.330	.26	.61	.20	.29	.33	.61	.25	.38	.38	.81	.30	.43	.48	1.56	.37	.43	.330
.390	.27	.61	.21	.30	.33	.81	.25	.38	.33	1.06	.25	.38	.53	1.56	.42	.59	.390
.470	.30	.61	.22	.35	.33	.81	.25	.38	.37	1.06	.29	.42	.56	1.56	.45	.62	.470
.560	.35	.61	.27	.40	.36	.81	.28	.41	.42	1.06	.31	.48	.56	1.81	.45	.62	.560
.680	.32	.81	.24	.37	.42	.81	.34	.47	.44	1.06	.33	.50	.60	1.81	.49	.66	.680
.820	.32	.81	.24	.37	.45	.81	.37	.50	.50	1.06	.39	.56	.66	1.81	.54	.73	.820
1.00	.32	.81	.24	.37	.47	.81	.39	.52	.52	1.06	.41	.58	.71	1.81	.59	.78	1.00
1.20	.35	.81	.27	.40	.49	.81	.41	.54	.53	1.31	.42	.59	.87	1.81	.75	.94	1.20
1.50	.35	.81	.27	.40	.42	1.06	.31	.48	.54	1.31	.43	.60	.93	1.81	.81	1.00	1.50
1.80	.40	.81	.32	.45	.46	1.06	.35	.52	.55	1.56	.44	.61	.88	2.06	.76	.95	1.80
2.00	.40	.81	.32	.45	.48	1.06	.37	.54	.55	1.56	.44	.61	.93	2.06	.81	1.00	2.00
2.20	.43	.81	.35	.48	.49	1.31	.38	.55	.60	1.56	.49	.66					2.20
2.70	.46	.81	.38	.51	.50	1.31	.39	.56	.60	1.81	.48	.67					2.70
3.00	.46	.81	.38	.51	.50	1.31	.39	.56	.61	1.81	.48	.68					3.00
3.30	.49	1.13	.41	.55	.54	1.31	.43	.60	.65	1.81	.53	.72					3.30
4.00	.42	1.13	.31	.48	.59	1.31	.48	.65	.69	1.81	.57	.76					4.00
5.00	.48	1.13	.37	.45	.56	1.56	.45	.62	.71	2.06	.59	.78					5.00
5.60	.50	1.13	.39	.56	.59	1.56	.48	.65									5.50
6.00	.50	1.13	.39	.56	.61	1.56	.50	.67									6.00
6.80	.52	1.13	.41	.58	.67	1.56	.56	.73									6.80
7.00	.52	1.13	.41	.58	.67	1.56	.56	.73									7.00
8.00	.48	1.31	.37	.54	.67	1.81	.56	.73									8.00
8.20	.49	1.31	.38	.55	.69	1.81	.58	.75									8.20
10.0	.65	1.31	.54	.71	.72	1.81	.64	.81									10.0

ISO 9001:2008 REGISTERED

METALIZED POLYCARBONATE PREFORMED PLASTIC CASE

TYPE 4R

NON INDUCTIVE
SELF HEALING



OPERATING TEMPERATURE RANGE

-55°C to 125°C without derating.

Metalized Polycarbonate dielectric in flame retardant pre-formed plastic case with resin endfill. Stand-off feet facilitate thorough circuit board cleaning.

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

TOLERANCE

NO SYMBOL	± 20%
K	± 10%
J	± 5%
U	± 2%
W	± 1%

LEADS

Standard leads are weldable and solderable copper clad steel wire with 60/40 tinning. Weldable and solderable "Dumet" leads consist of gold plated copper-clad, nickel-iron-core wire and are specified by adding the prefix "D" to the part number. Weldable and solderable nickel leads with 60/40 solder tinning are obtained by adding the prefix "N" to the part number.

INSULATION RESISTANCE AT ±25°C

500,000 megohms minimum.

PART NUMBER DESCRIPTION

EXAMPLE:	4R	153	J
TYPE DESIGNATION	4R		
CAPACITANCE		153	
TOLERANCE			J

	50 VDC			
μF	T	H	L	PART NO.
.0010	.095	.245	.290	4R102-
.0015	.095	.245	.290	152-
.0022	.095	.245	.290	222-
.0033	.095	.245	.290	332-
.0047	.095	.245	.290	472-
.0056	.095	.320	.290	562-
.0068	.095	.320	.290	682-
.0100	.095	.320	.290	103-
.0120	.095	.320	.290	123-
.0150	.095	.320	.290	153-
.0220	.095	.320	.290	223-
.0330	.095	.320	.290	333-
.0470	.095	.320	.290	473-
.0560	.095	.320	.290	563-
.0680	.145	.320	.290	683-
.0820	.145	.320	.290	823-
.1000	.145	.320	.290	104-

Intermediate capacitance values are supplied in the same case size as the next higher value.

ISO 9001:2008 REGISTERED

POLYCARBONATE AND FOIL

TYPES

- 19 - Case Grounded
- 20 - Case Floating

TOLERANCE

W	± 1%
U	± 2%
J	± 5%
K	± 10%
M	± 20%

VOLTAGE

0J	50 VDC
2	200 VDC
4	400 VDC
6	600 VDC

CAPACITANCE

The nominal capacitance value in picofarads is expressed by a three digit number. The first two digits are significant figures and the last digit specifies the number of zeros to follow.

MODELS

AZ-CAP hermetically sealed tubular capacitors are available in optional mounting and terminal configurations. See detailed "Mounting & Terminal Specification Sheet".

LEADS

Standard lead are solid wire, 60/40 solder dipped for superior solderability.

CASE DIA.	AWG	LEAD MATERIAL
.175 & .195	24	OXYGEN FREE COPPER
.235 & .312	22	OXYGEN FREE COPPER
.400 & UP	20	COPPER CLAD STEEL

Weldable and solderable "dumet" leads, which consist of gold-plated copper-clad, nickel-iron core wire, are available by adding the prefix "D" to the AZ-CAP part number.

Weldable and solderable "NICKEL" leads with 60/40 solder dipped finished are available by adding the prefix "N" to the AZ-CAP part number.

CHARACTERISTICS

AZ-CAP type "20" polycarbonate and foil capacitors will meet or exceed the requirements of MIL-C-19978/8.

OPERATING TEMPERATURE RANGE

-55 To 125°C at full rated voltage.

DIELECTRIC STRENGTH

Tested at 200% of rated voltage for 1 minute minimum.

INSULATION RESISTANCE AT 25°C

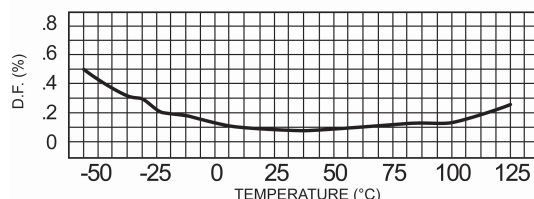
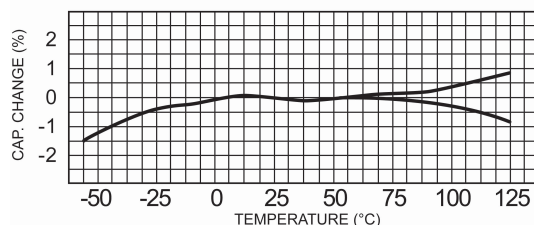
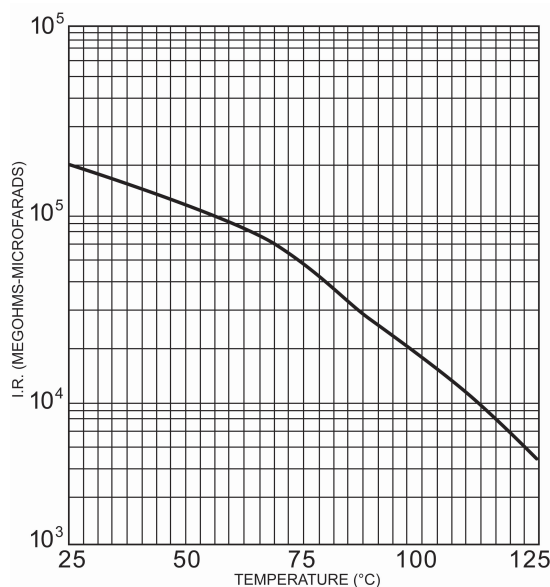
The product of I.R. in megohms and the capacitance in microfarads shall be 75,000 megohms-microfarads minimum. However I.R. need not exceed 150,000 megohms.

DISSIPATION FACTOR AT 25°C

Less than .15% when measured at 1000 Hz for values up to and including 1.0 μ F. Capacitance values greater than 1.0 μ F, are measured at 60 Hz.

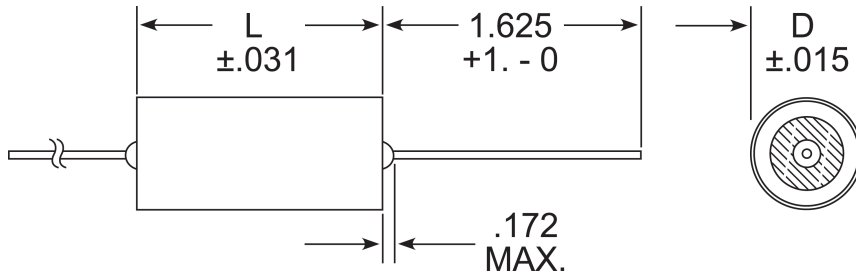
PART NUMBER DESCRIPTION

EXAMPLE: 20 K 4 104 -D
 TYPE DESIGNATION — 20
 TOLERANCE — K
 VOLTAGE — 4
 CAPACITANCE — 104
 MODEL — -D



POLYCARBONATE AND FOIL

NON INDUCTIVE,
EXTENDED FOIL



When ordering Type "19" grounded case capacitors, change the part number accordingly, and deduct .062" from the length dimension.

Should an insulating sleeve be required, add the suffix "-3" to the AZ-CAP part number and allow an additional .016" and .062" to the "D" and "L" dimensions respectively.

Intermediate capacitance values are available in the same case size as the next higher value.

μF	50 VDC			200 VDC			400 VDC			600 VDC			μF
	D	L	P/N	D	L	P/N	D	L	P/N	D	L	P/N	
.001	.175	.562	20_0J102	.175	.562	20_2102	.195	.562	20_4102	.195	.750	20_6102	.001
.0012	.175	.562	20_0J122	.175	.562	20_2122	.195	.562	20_4122	.195	.750	20_6112	.0012
.0015	.175	.562	20_0J152	.175	.562	20_2152	.235	.562	20_4152	.195	.750	20_6152	.0015
.0018	.175	.562	20_0J182	.175	.562	20_2182	.235	.562	20_4182	.195	.750	20_6182	.0018
.0022	.175	.562	20_0J222	.195	.562	20_2222	.235	.562	20_4222	.235	.750	20_6222	.0022
.0027	.175	.562	20_0J272	.195	.562	20_2272	.235	.750	20_4272	.235	.750	20_6272	.0027
.0033	.175	.562	20_0J332	.235	.562	20_2332	.235	.750	20_4332	.312	.750	20_6332	.0033
.0039	.175	.562	20_0J392	.235	.562	20_2392	.235	.750	20_4392	.312	.750	20_6392	.0039
.0047	.175	.562	20_0J472	.235	.562	20_2472	.235	.750	20_4472	.312	.750	20_6472	.0047
.0056	.175	.562	20_0J562	.235	.750	20_2562	.235	.750	20_4562	.312	.750	20_6562	.0056
.0068	.195	.562	20_0J682	.235	.750	20_2682	.312	.750	20_4682	.312	.875	20_6682	.0068
.0082	.195	.562	20_0J822	.235	.750	20_2822	.312	.750	20_4822	.312	.875	20_6822	.0082
.0100	.235	.562	20_0J103	.235	.750	20_2103	.312	.750	20_4103	.400	.875	20_6103	.0100
.0120	.235	.562	20_0J123	.235	.750	20_2123	.312	.750	20_4123	.400	.875	20_6123	.0120
.0150	.235	.562	20_0J153	.312	.750	20_2153	.312	.875	20_4153	.400	.875	20_6153	.0150
.0180	.235	.750	20_0J183	.312	.750	20_2183	.400	.875	20_4183	.400	1.125	20_6183	.0180
.0220	.235	.750	20_0J223	.312	.750	20_2223	.400	.875	20_4223	.400	1.125	20_6223	.0220
.0250	.235	.750	20_0J253	.312	.750	20_2253	.400	.875	20_4253	.500	1.125	20_6253	.0250
.0270	.235	.750	20_0J273	.312	.875	20_2273	.400	.875	20_4273	.500	1.125	20_6273	.0270
.0330	.235	.750	20_0J333	.312	.875	20_2333	.400	1.125	20_4333	.500	1.125	20_6333	.0330
.0390	.312	.750	20_0J393	.312	.875	20_2393	.400	1.125	20_4393	.500	1.125	20_6393	.0390
.0470	.312	.750	20_0J473	.312	.875	20_2473	.400	1.125	20_4473	.562	1.125	20_6473	.0470
.0500	.312	.750	20_0J503	.400	.875	20_2503	.500	1.125	20_4503	.562	1.125	20_6503	.0500
.0560	.312	.750	20_0J563	.400	.875	20_2563	.500	1.125	20_4563	.562	1.375	20_6563	.0560
.0680	.312	.750	20_0J683	.400	1.125	20_2683	.500	1.125	20_4683	.562	1.375	20_6683	.0680
.0820	.312	.750	20_0J823	.400	1.125	20_2823	.562	1.125	20_4823	.562	1.625	20_6823	.0820
.1000	.312	.875	20_0J104	.400	1.125	20_2104	.562	1.375	20_4104	.562	1.625	20_6104	.1000
.1200	.312	.875	20_0J124	.500	1.125	20_2124	.500	1.625	20_4124	.562	1.625	20_6124	.1200
.1500	.400	.875	20_0J154	.500	1.125	20_2154	.500	1.625	20_4154	.670	1.875	20_6154	.1500
.1800	.400	.875	20_0J184	.562	1.125	20_2184	.670	1.625	20_4184	.750	1.875	20_6184	.1800
.2200	.400	.875	20_0J224	.562	1.125	20_2224	.670	1.625	20_4224	.750	1.875	20_6224	.2200
.2500	.400	1.125	20_0J254	.562	1.375	20_2254	.670	1.875	20_4254	.750	2.125	20_6254	.2500
.2700	.400	1.125	20_0J274	.562	1.375	20_2274	.670	1.875	20_4274	.750	2.125	20_6274	.2700
.3300	.400	1.125	20_0J334	.562	1.625	20_2334	.750	1.875	20_4334	1.00	1.875	20_6334	.3300
.3900	.500	1.125	20_0J394	.562	1.625	20_2394	.750	1.875	20_4394	1.00	2.125	20_6394	.3900
.4700	.500	1.125	20_0J474	.670	1.625	20_2474	.750	2.125	20_4474	1.00	2.375	20_6474	.4700
.5000	.500	1.125	20_0J504	.670	1.625	20_2504	1.00	2.125	20_4504	1.00	2.375	20_6504	.5000
.5600	.562	1.125	20_0J564	.670	1.625	20_2564	1.00	2.125	20_4564	1.00	2.625	20_6564	.5600
.6800	.562	1.375	20_0J684	.670	1.875	20_2684	1.00	2.125	20_4684	1.00			.6800
.8200	.562	1.625	20_0J824	.750	1.875	20_2824	1.00	2.375	20_4824	1.00			.8200
1.000	.562	1.625	20_0J105	.750	2.125	20_2105	1.00	2.625	20_4105				1.000
1.200	.670	1.625	20_0J125	1.00	2.125	20_2125							1.200
1.500	.670	1.625	20_0J155	1.00	2.125	20_2155							1.500
1.800	.670	1.625	20_0J185	1.00	2.375	20_2185							1.800
2.000	.670	1.875	20_0J205	1.00	2.375	20_2205							2.000
2.200	.750	1.875	20_0J225										2.200
2.500	.750	1.875	20_0J255										2.500
3.000	.750	2.215	20_0J305										3.000

INTERMEDIATE CAPACITANCE VALUES ARE SUPPLIED IN THE SAME CASE SIZE AS THE NEXT HIGHER VALUE.

Other ELECTRO TECHNIK Companies

Resistive Products:

VAMISTOR

P.O. Box 1260
Clearwater, FL 33757
Ph: 727.796.1044
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