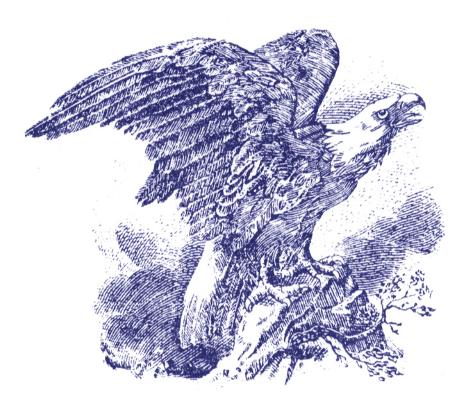
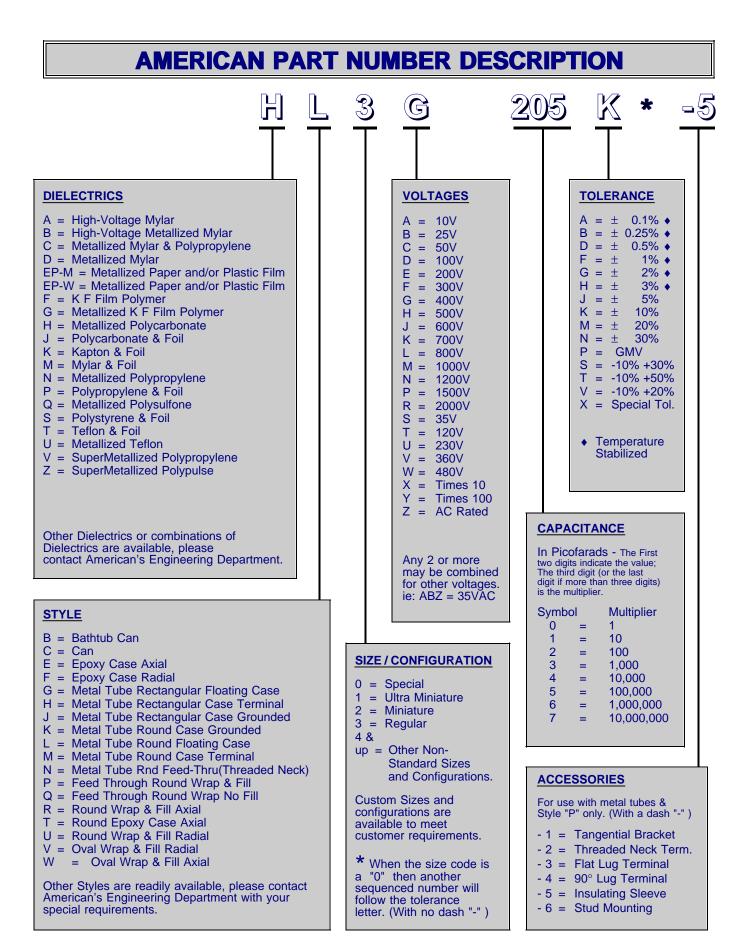
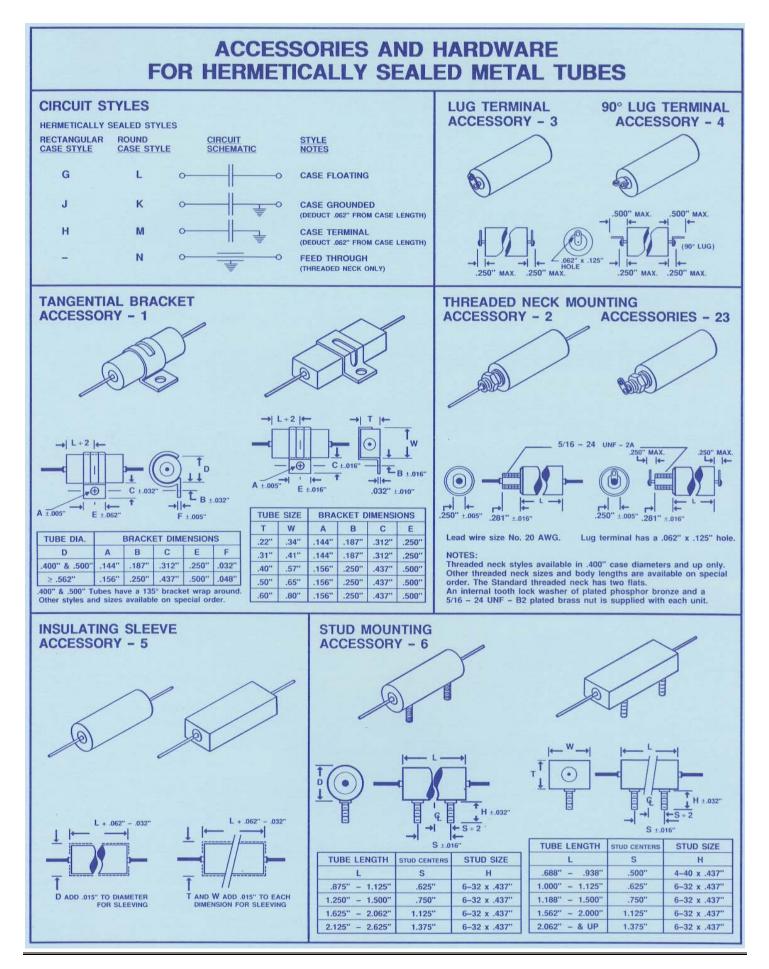
<section-header>AMERICAN
CAPACITOR
CORPORATION





American Capacitor Corporation • 5367 Third Street, Irwindale, CA 91706 • Phone (626) 814-4444 • Fax (626) 814-4434 Web Site http://www.AmericanCapacitor.Com • E-mail Sales@AmericanCapacitor.Com



American Capacitor Corporation \diamond 5367 Third Street, Irwindale, CA 91706 \diamond Phone 626-814-4444 \diamond Fax 626-814-4434 Web Site <u>http://www.AmericanCapacitor.Com</u> \diamond E-Mail <u>Sales@AmericanCapacitor.Com</u>

AMERICAN CAPACITOR CORPORATION

American Capacitor Corporation:

American serves the Film Capacitor Market with both high volume catalog styles and special designs. Capacitors can be supplied in all dielectric systems and configurations, solving difficult size and voltage applications. The manufacturing facility located in Irwindale, California, utilizes the most modern equipment in a controlled atmosphere.

Class 100 flow hoods are utilized in the winding process which enables us to provide extremely high quality capacitors, including capacitors that previously have been impossible to obtain.

The manufacturing staff consists of specialists in each phase of production with a combined experience level of well over 100 years.

We are proud to supply the highest quality capacitors available with the best possible delivery.

Engineering:

We have a complete engineering staff with over 40 years experience in capacitor design and development. Designs are handled quickly through the use of computer aided design, obtaining the optimum design.

If our company can't help you, FOR ANY REASON, we'll give you the name of someone who can.

We'll give you ALL the alternatives.

Quality Assurance:

American is an approved Mil-I-45208 manufacturer, FSCM 59366. Each capacitor is 100% tested twice, first in section form, then in final form. Our quality is closely monitored by our Q.A. department throughout the manufacturing process with a final AQL inspection performed prior to every shipment. Our Q.A. manager has over 30 years experience in quality control and related fields.

AC Capacitors:

AC rated metallized units with greater than 3 times the normal current capability, high corona start voltage and operation to 1 Megahertz are readily available.

High Voltage:

High voltage capacitors are available in standard industrial sizes and voltages along with an ultra miniature series which is usually less than 50% of the standard size, in some cases 25% of the standard size.

Custom shapes and sizes with much shorter lengths are readily available.

Wrap & Fill:

Capacitors are wrapped in a skin tight plastic tape and then filled with epoxy on the ends. The most economical of the packaging methods. Available in Axial Leaded, Oval (Style W); Axial Leaded, Round (Style R); Radial Leaded, Oval (Style V); and Radial Leaded, Round (Style U).

Epoxy Case:

Capacitors are encased in a molded epoxy/plastic shell with epoxy fill. Available in Axial Leaded, Rectangular (Style E); Radial Leaded, Rectangular (Style F); and Axial Leaded, Round (Style T).

Feed Through:

Round Feed Through capacitors, in a skin tight plastic wrap with solderable ends (Style Q). The hole in the center of the capacitor is either a Teflon Tube, Paper Tube or Phenolic Tube ranging in sizes from just a wire to a large threaded stud to fit through. The majority of Feed Throughs are custom made to exact customer requirements. They are very popular in filter applications.

Hermetic Seal:

Hermetically sealed capacitors are supplied in both the standard Floating case Round Metal Tube (Style L); and the Floating case Rectangular Metal Tube (Style G); along with Case Grounded, Case Terminal, and Feed Through.

Also available are the standard Bath Tub Metal Cans along with Cans of any size or shape needed for special customer application.

Military Specifications

American Capacitor manufac-

tures capacitors to meet several Mil-Specs including the following.

MIL-C-25 Fixed Paper Dielectric, DC, Hermetically Sealed in Metal Cases.

MIL-C-11693 Fixed Paper/Film Dielectric, Feed-Through, Hermeti-cally Sealed in Metal Cases.

MIL-C-14157 Fixed Paper, Paper-Plastic or Plastic Dielectric, DC, Hermetically Sealed in Metal Cases.

MIL-C-18312 Fixed Metallized Paper, Paper-Plastic or Plastic Film Dielectric, DC, Hermetically Sealed in Metal Cases.

MIL-C-19978 Fixed Plastic or Paper-Plastic Dielectric, Hermetically Sealed in Metal, Ceramic or Glass Cases.

MIL-C-27287 Fixed Plastic Dielectric, DC, in Non-Metallic Cases.

MIL-C-39022 Fixed Metallized Paper-Plastic Film or Plastic Film Dielectric, DC and AC, Hermetically Sealed in Metal Cases.

MIL-C-55514 Fixed Plastic or Metallized Plastic Dielectric, DC, in Non-Metallic Cases.

MIL-C-83421 Fixed SuperMetallized Plastic Film Dielectric, DC, AC and AC-DC, Hermetically Sealed in Metal Cases.

MIL-C-83439 Fixed Feed-Through, EMI suppression, DC, AC and AC-DC, Hermetically Sealed in Metal Cases.

MIL-STD-202 Test methods for electronic and electrical component parts.

DIELECTRICS

Mylar (Polyester):

A good general purpose dielectric with relativity low cost and high volumetric efficiency. Still the most popular of the dielectrics. Available in both Metallized and Foil designs.

Combination Film:

Combination Mylar and Polypropylene. Extremely low temperature coefficient in the 0°C to 85°C temperature range. Volumetric efficiency similar to polycarbonate.

AMERICAN CAPACITOR CORPORATION

KF (Polymer):

Extremely high volumetric efficiency with about 4 times the "K Factor" of mylar, making it about 1/4 the size. Higher DF and lower IR are its disadvantages along with cost.

Polycarbonate:

Lower DF, higher IR, better temperature coefficient and better stability than mylar with a slightly lower volumetric efficiency. Second most popular Dielectric.

Kapton:

Electrical properties similar to mylar with a much higher operating temperature going up to 250°C. A higher cost than mylar limits its use.

Polypropylene:

Very good temperature coefficient high IR, and low DF make it good for AC operation. Usable to 105°C without derating. Has become increasingly popular for AC applications. Available in both Metallized and foil constructions.

Polysulfone:

Electrical properties similar to polycarbonate with a very good temperature coefficient and higher operating temperature. Very limited availability in the last few years has limited its use.

Polystyrene:

Very good electrical properties and excellent stability are its advantages. Its big disadvantage is its operation is limited to below 85°C and it is available in foil construction only.

SuperMetallized Polypropylene:

A very high current design for very high frequencies up to 1 Megahertz. The ultimate in high current, significantly larger than SuperMetallized Polypulse. Very useful for the smaller capacitance values. Also popular in snubber applications.

SuperMetallized Polypulse:

Developed by American Capacitor specifically for switching power supply type applications. They are used for input filtering, high frequency transformer DC blocking and output filtering. They are dry-section non-polar metallized film dielectric with special high current end terminations resulting in very low ESR values and very high DV/DT ratings. They are significantly smaller than metallized polypropylene capacitors and have a 100% voltage rating from -55°C to +125°C. Capacitance change over temperature is 4 times better than with polypropylene.

Teflon:

The best electrical properties of all the Dielectrics. Extremely high IR, low DF and operation to 250°C. Available in both metallized and foil constructions.

TECHNICAL TERMS

Capacitance:

A measure of the energy storage ability of a capacitor, given as C = KA/D, where A is the area of the electrodes, D is their separation, and K is a function of the dielectric between the electrodes. The formula yields a result in farads (F), but a farad is so large that the most commonly used values are expressed in microfarads ($\mu f = 10^{-6}F$) or picofarads ($pf = 10^{-12}F$).

Working voltage (WVDC, WVAC):

The maximum continuous voltage that should be applied to a capacitor. Rated voltages for DC and AC operation are usually not the same.

Temperature Coefficient (TC):

The change in capacitance with temperature expressed linearly as parts per million per degree centigrade (PPM/°C), or as a percent change over a specified temperature range. Most film capacitors are not linear and TC is expressed in percent.

Dissipation Factor (DF):

A measure of the power factor (or losses) of a capacitor, given as DF= 2 π fRC X 100%, where R is the equivalent series resistance of the capacitor, f is the frequency, and C is capacitance. Dissipation factor varies with frequency and temperature.

Equivalent Series Resistance (ESR):

A measure of the total lossiness of a capacitor which includes the leads, electrodes, dielectric losses, leakage (IR) and most important, the end spray connecting the leads to the metallized film. The lower the ESR the higher the current carrying ability the capacitor will have.

Insulation Resistance (IR):

A measure of the resistance to a DC current flow through the capacitor under steady state conditions. Values for film and ceramic capacitors are usually expressed in megohmmicrofarads for a given design and dielectric. The actual resistance of the capacitor is obtained by dividing the megohm-microfarads by the capacitance.

Dielectric Absorption (DA):

An apparent "recovery voltage" measured after the capacitor is discharged and expressed as a percent of the initial charge voltage. DA is due largely to the dipole moment of the dielectric and to lesser degree the migration of free electrons to the surface of the dielectric.

Volumetric efficiency:

Energy density in μ f-volts per cubic inch, from: (capacitance) X (working voltage) \div (volume).

Longer capacitors are more efficient than shorter units, because of volume used by encapsulation and unused dielectric at the capacitor ends (The margins). Cylindrical units have a smaller volume than rectangular units, although rectangular units can be stacked more compactly.

Corona:

Any electrically detectable, field intensified ionization that does not result immediately in complete breakdown of the insulation and electrode system in which it occurs. Its incidence can be reduced or avoided through special designs.

CROSS REFERENCE CHART

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POLYPROPYLENE A FOIL MINIATURE REGULAR PE2 · · F51 · 951 PME PME METALLIZED MYLAR (POLYESTER) MINATURE MUNATURE DP2 · · · · · · PE PT42 METALLIZED MYLAR (POLYESTER) MINATURE REGULAR DP3 · 2/MBPC · · · DD2 ME43 METALLIZED POLYCARBONATE MINATURE REGULAR HF2 · MPBPC C32 · 652A HM2E · METALLIZED POLYPROPYLENE MINATURE HF2 · · H32 912A NM2E · SUPERMETALLIZED POLYPROPYLENE MINATURE NF2 · · · · · 2/MC2 · · MC4 N/L2E · · · 2/MC2 · · · · · 2/MC2 · · · · · · · · · · · · · <td< td=""><td>HD</td><td></td><th></th><th></th><td></td><td></td><td></td><td></td><td>*</td><td></td><td>*</td></td<>	H D								*		*	
Nome Regular PE3 · <t< td=""><td>RE</td><td rowspan="2">POLYPROPYLENE</td><th></th><th>-</th><td></td><td>*</td><td></td><td></td><td></td><td></td><td>ET42</td></t<>	RE	POLYPROPYLENE		-		*					ET42	
METALLIZED MYLAR (POLYESTER) MINIATURE REGULAR DF3 · A32 · 232A DM2E · METALLIZED MULAR (POLYESTER) MINIATURE REGULAR DF3 · 2MBPC · · · DD2 ME43 METALLIZED POLYCARBONATE MINIATURE REGULAR HF2 · MPPC C32 · 652A HM2E · METALLIZED POLYPROPYLENE MINIATURE HF2 · · · · · · H2E MC43 SUPERMETALLIZED POLYPROPYLENE MINIATURE ZF2 · · · · · · · POLY NAZE · SUPERMETALLIZED POLYPROPYLENE MINIATURE ZF3 · · · · · ZM2E · · ZM2E · · ZM2E · ZM2E · ZM2E · · ZM2E · · ZM2E · ZM2E · · ZM2E · ZM2E · <td></td> <th></th> <th></th> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td>*</td>						*					*	
NYLAR (POLYESTER) REGULAR DF3 · 2MBPC · · 0.0 0.02 ME43 MYLAR (POLYESTER) MINATURE HF2 · MPBPC C32 · 652A HM2E · METALLIZED POLYPROPYLENE MINATURE HF3 X428 XMPBPC · · · MC43 MC43 METALLIZED POLYPROPYLENE MINATURE NF3 · · · · · MC43 MC43 SUPERNETALLIZED POLYPROPYLENE MINATURE NF3 · · · · MC4 · MC43 MP43 SUPERNETALLIZED POLYPROPYLENE MINATURE ZF2 · · · · · · MP43 · · · · · · ZZE · · · · ZZE · · · ZZE · · ZZE · · ZZE · · ZZE · · ZZ		& FOIL	REGULAR	PE3	*	*	*	*	*	PE	PT42	
METALLIZED POLYCARBONATE MINIATURE HF2 ' MPBPC C.32 ' 652A HM2E ' METALLIZED POLYCARBONATE REGULAR HF3 X428 XMPBPC · · · H2E MC43 METALLIZED POLYPROPYLENE MINATURE NF2 · · H32 · 912A NM2E · SUPERMETALLIZED POLYPROPYLENE MINATURE NF2 · · · · · · MP43 SUPERMETALLIZED POLYPROPYLENE MINATURE ZF2 · · · · · · · · ZZE · · · ZZE · · ZZE · · · · · ZZE · ZZE · · ZZE · · ZZE <td></td> <td>METALLIZED</td> <th>-</th> <th>DF2</th> <td>*</td> <td>*</td> <td>A32</td> <td>*</td> <td>232A</td> <td>DM2E</td> <td>*</td>		METALLIZED	-	DF2	*	*	A32	*	232A	DM2E	*	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>10 A 10</td> <td>MYLAR (POLYESTER)</td> <th>REGULAR</th> <th>DF3</th> <td>*</td> <td>2MBPC</td> <td>*</td> <td>*</td> <td>*</td> <td>D2E</td> <td>ME43</td>	10 A 10	MYLAR (POLYESTER)	REGULAR	DF3	*	2MBPC	*	*	*	D2E	ME43	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>AIA</td> <td rowspan="2"></td> <th>MINIATURE</th> <th>HF2</th> <td>*</td> <td>MPBPC</td> <td>C32</td> <td>*</td> <td>652A</td> <td>HM2E</td> <td>*</td>	AIA		MINIATURE	HF2	*	MPBPC	C32	*	652A	HM2E	*	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>ы₹</td> <th>REGULAR</th> <th>HF3</th> <td>X428</td> <td>XMPBPC</td> <td>*</td> <td>*</td> <td>*</td> <td>H2E</td> <td>MC43</td>	ы₹		REGULAR	HF3	X428	XMPBPC	*	*	*	H2E	MC43	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>S.R.</td> <td>METALLIZED</td> <th>MINIATURE</th> <th>NF2</th> <td>*</td> <td>*</td> <td>H32</td> <td>*</td> <td>912A</td> <td>NM2E</td> <td>*</td>	S.R.	METALLIZED	MINIATURE	NF2	*	*	H32	*	912A	NM2E	*	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>AR</td> <td></td> <th>REGULAR</th> <th>NF3</th> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>N2E</td> <td>MP43</td>	AR		REGULAR	NF3	*	*	*	*	*	N2E	MP43	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>E <</td> <td>SUPERMETALLIZED</td> <th></th> <th></th> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>ZM2E</td> <td>*</td>	E <	SUPERMETALLIZED			*	*	*	*	*	ZM2E	*	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td rowspan="5">EPOX' RECTANG</td> <td></td> <th></th> <th>ZF3</th> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>Z2E</td> <td>*</td>	EPOX' RECTANG			ZF3	*	*	*	*	*	Z2E	*	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>MYLAR (POLYESTER)</td> <th></th> <th></th> <td>*</td> <td>*</td> <td>B32</td> <td>*</td> <td>*</td> <td></td> <td>*</td>		MYLAR (POLYESTER)			*	*	B32	*	*		*	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td></td> <th></th> <th></th> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td></td> <td>ET43</td>					*	*	*	*	*		ET43	
RegularPF3····P2EPT43METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3·····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····MC72MC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3·····MC72SUPERMETALLIZED POLYPROPYLENEREGULARMG3·····MC72POLYPROPYLENEREGULARMG3·····MC72MULAR (POLYESTER) & FOILREGULARMG3······MC72POLYPROPYLENE & FOILREGULARMG3·······MC72METALLIZED POLYPROPYLENEREGULARMG3·······MC62POLYPROPYLENE & FOILREGULARML3X683····MC61DMC62METALLIZED POLYPROPYLENEREGULARML3··· <td>POLYPROPYLENE</td> <th></th> <th></th> <td>*</td> <td>*</td> <td>F32</td> <td>*</td> <td>952A</td> <td></td> <td>*</td>		POLYPROPYLENE			*	*	F32	*	952A		*	
METALLIZED MYLAR (POLYESTER)REGULARDG3····234ADGME72METALLIZED POLYCARBONATEREGULARHG3····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····654AHGMC72SUPERMETALLIZED POLYPROPYLENEREGULARNG3······MGMP72MULAR (POLYESTER) & FOILREGULARMG3······MGMP72POLYPROPYLENE & FOILREGULARMG3······MGMP72MULAR (POLYESTER) & FOILREGULARMG3······MGMP72POLYPROPYLENE & FOILREGULARMG3······MGMP72MULAR (POLYESTER) & FOILREGULARMG3······MGMP72MULAR (POLYESTER) & FOILREGULARDL3X683·····MC62MULAR (POLYESTER) & FOILREGULARML3·····B15, C15·NLMP62SUPERMETALLIZED POLYPROPYLENEREGULARML3·······Z34··················· <th< td=""><td></td><th></th><th></th><td>*</td><td>*</td><td>*</td><td>*</td><td></td><td></td><td>PT43</td></th<>					*	*	*	*			PT43	
METALLIZED POLYCARBONATEREGULARHG3····654AHGMC72METALLIZED POLYPROPYLENEREGULARNG3·····NGMP72SUPERMETALLIZED POLYPROPYLENEREGULARZG3······NGMP72POLYPROPYLENE & FOILREGULARMG3·······CG·POLYPROPYLENE & FOILREGULARMG3······EGET72POLYPROPYLENE & FOILREGULARMG3······PGPT72METALLIZED MYLAR (POLYESTER)REGULARDL3X683··MA, MM, MX233DDLME62METALLIZED POLYCARBONATEREGULARHL3X483··A, B,G,K,P 12651DHLMC62METALLIZED POLYPROPYLENEREGULARNL3····B15, C15·NLMP62SUPERMETALLIZED POLYPROPYLENEREGULARML3617G····ZL·MYLAR (POLYESTER) & FOILREGULARML3617G···B55·PLPT62					*	*	*	*	234A			
METALLIZED MYLAR (POLYESTER)REGULARDL3X683·MA, MM, MX233DDLME62METALLIZED POLYCARBONATEREGULARHL3X483··A,B,G,K,P 12651DHLMC62METALLIZED POLYPROPYLENEREGULARNL3···B15, C15·NLMC62SUPERMETALLIZED POLYPROPYLENEREGULARNL3····B15, C15·NLMC62MYLAR (POLYESTER) & FOILREGULARML3617G·····ELET62POLYPROPYLENE & FOILREGULARPL3····B55·PLPT62					*	*	*	*				
METALLIZED MYLAR (POLYESTER)REGULARDL3X683·MA, MM, MX233DDLME62METALLIZED POLYCARBONATEREGULARHL3X483··A,B,G,K,P 12651DHLMC62METALLIZED POLYPROPYLENEREGULARNL3···B15, C15·NLMC62SUPERMETALLIZED POLYPROPYLENEREGULARNL3····B15, C15·NLMC62MYLAR (POLYESTER) & FOILREGULARML3617G·····ELET62POLYPROPYLENE & FOILREGULARPL3····B55·PLPT62						*	*	*	*			
METALLIZED MYLAR (POLYESTER)REGULARDL3X683·MA, MM, MX233DDLME62METALLIZED POLYCARBONATEREGULARHL3X483··A,B,G,K,P 12651DHLMC62METALLIZED POLYPROPYLENEREGULARNL3···B15, C15·NLMC62SUPERMETALLIZED POLYPROPYLENEREGULARNL3····B15, C15·NLMC62MYLAR (POLYESTER) & FOILREGULARML3617G·····ELET62POLYPROPYLENE & FOILREGULARPL3····B55·PLPT62							*	*	*			
METALLIZED MYLAR (POLYESTER)REGULARDL3X683·MA, MM, MX233DDLME62METALLIZED POLYCARBONATEREGULARHL3X483··A,B,G,K,P 12651DHLMC62METALLIZED POLYPROPYLENEREGULARNL3···B15, C15·NLMC62SUPERMETALLIZED POLYPROPYLENEREGULARNL3····B15, C15·NLMC62MYLAR (POLYESTER) & FOILREGULARML3617G·····ELET62POLYPROPYLENE & FOILREGULARPL3····B55·PLPT62												
METALLIZED MYLAR (POLYESTER)REGULARDL3X683·MA, MM, MX233DDLME62METALLIZED POLYCARBONATEREGULARHL3X483··A,B,G,K,P 12651DHLMC62METALLIZED POLYPROPYLENEREGULARNL3···B15, C15·NLMC62SUPERMETALLIZED POLYPROPYLENEREGULARNL3····B15, C15·NLMC62MYLAR (POLYESTER) & FOILREGULARML3617G·····ELET62POLYPROPYLENE & FOILREGULARPL3····B55·PLPT62		,										
							•					
	METAL TUBE ROUND, AXIAL ERMETICALLY SEALED						· ·					
								B15, C15			MP62	
							*	*	*		*	
					617G	*	*	*	*			
* = NO cross available Some Part Numbers may not be an exact cross, if in doubt consult the factory.	E H	POLYPROPYLENE & FOIL	REGULAR	PL3	*	*	*	B55	*	PL	PT62	
	* = NO cross available Some Part Numbers may not be an exact cross, if in doubt consult the factory.											

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CROSS REFERENCE CHART

ELPAC COMPONENTS	F-DYNE •										
	SOUTHERN ELECTRONIC • CIRCLE ELECTRONIC	GUDEMAN CORP.	IMB ELECTRONIC • ELECTRO-CAP • MINI-COR	RELIABLE CAPACITOR • REL-CAP • HI-REL • ALISSA	S & E I MFG	SPRAGUE ELECTRIC • DEARBORN ELECTRIC	AMERICAN CAPACITOR CORPORATION	SIZE	DIELECTRIC	CASE TYPE	
Z-A	MPE23	*	XA2, JA2	EFX, E2F	*	439P	DW2	MINIATURE	METALLIZED		
ZD-A	MPE21	363	YA2, ZA2	VMF	*	149P, MPX	DW3	REGULAR	MYLAR (POLYESTER)		
C-A	MPC23	397	DA2, RA2	PMF	÷	*	HW2	MINIATURE	METALLIZED		
B-A, HS-A	MPC21	*	BA2	PCMF	22W	LP77	HW3	REGULAR	POLYCARBONATE		
*	MPP23	*	*	*	*	*	NW2	MINIATURE		& FILL AXIAL	
D 4	-		010	DDME	•	•		REGULAR	METALLIZED POLYPROPYLENE	ШХ	
PA	MPP21		GA2	PPMF			NW3			8	
*	*	*	*	*	*	*	ZW2	MINIATURE	SUPERMETALLIZED	ت ر م	
*	*	*	*	*	*	*	ZW3	REGULAR	POLYPULSE	24	
*	PE23	338	NA2	*	*	*	MW2	MINIATURE	MYLAR (POLYESTER)	WRAP OVAL,	
MD-A	PE21	*	MA2	VF	*	148P	MW3	REGULAR	& FOIL		
*	PP23	*	*	*	*	*	PW2	MINIATURE	POLYPROPYLENE		
*	PP21	*	LA2	PPF	*	*	PW3	REGULAR	& FOIL		
Z-B	MPE13	*	XA1, JA1	ETX, E2T	*	430P, 431P	DR2	MINIATURE	METALLIZED		
ZD-B	MPE11	364	YA1, ZA1	VMT	*	416P	DR3	REGULAR	MYLAR (POLYESTER)		
C-B	MPC13	396	DA1, RA1	PMT	*	LP88	HR2	MINIATURE			
-		*			000			REGULAR	METALLIZED POLYCARBONATE		
B-B, HS-B	MPC11	-	BA1	PCMT	22R	LP66	HR3		10210/4800/412	3	
*	MPP13	*	*	*	*	*	NR2	MINIATURE	METALLIZED	WRAP & FILL ROUND, AXIAI	
PB	MPP11	*	GA1	PPMT	*	730P, 735P	NR3	REGULAR	POLYPROPYLENE	ે છે	
*	*	*	*	*	*	*	ZR2	MINIATURE	SUPERMETALLIZED	₽ ₽	
*	*	*	*	*	*	*	ZR3	REGULAR	POLYPULSE	\$5	
*	PE13	355	NA1	*	*	*	MR2	MINIATURE	MYLAR (POLYESTER)	μŞΟ	
MD-B	PE11	*	MA1	VT	÷	*	MR3	REGULAR	& FOIL	∼ ∝	
*	PP13	*	*	*	*	*	PR2	MINIATURE	POLYPROPYLENE		
*	PP11	*	LA1	PPT	*	*	PR3	REGULAR	& FOIL		
				FFI			-				
Z-X	MPE43	*	XV2, JV2	*	*	*	DE2	MINIATURE			
ZD-X	MPE41	323	YV2, ZV2	VMFE	*	450P, LM7A	DE3	REGULAR	MYLAR (POLYESTER)		
C-X	MPC43	*	DV2, RV2	*	*	*	HE2	MINIATURE	METALLIZED	IAL	
B-X, HS-X	MPC41	317	BV2	PCMFE	22B	*	HE3	REGULAR	POLYCARBONATE	ШĂ	
*	MPP43	*	*	*	*	*	NE2	MINIATURE	METALLIZED	A a	
PX	MPP41	*	GV2	PPMFE	*	*	NE3	REGULAR	POLYPROPYLENE	0 Ā	
*	*	*	*	*	*	*	ZE2	MINIATURE	SUPERMETALLIZED	EPOXY CASE RECTANGULAR, AXIAL	
*	*	*	*	*	*	*	ZE3	REGULAR	POLYPULSE	Χü	
*	PE43	*	NV2	*	÷	*	ME2	MINIATURE		₽₽	
MD-X	PE41	*	MV2	VFE	*	*	ME3	REGULAR	MYLAR (POLYESTER) & FOIL	ШЮ	
WID-X		*	IVI V Z *	VFE	*	*	-			쭚	
*	PP43			*	*	*	PE2	MINIATURE	POLYPROPYLENE		
*	PP41	*	LV2	PPFE	*	*	PE3	REGULAR	& FOIL		
Z-R	MPE53	*	XP2, JP2	*	*	*	DF2	MINIATURE	METALLIZED		
ZD-R	MPE51	322	YP2, ZP2	VMH	*	LM7R	DF3	REGULAR	MYLAR (POLYESTER)		
C-R	MPC53	*	DP2, RP2	*	*	*	HF2	MINIATURE	METALLIZED	٩L	
B-R, HS-R	MPC51	318	BP2	PCMH	22N	*	HF3	REGULAR	POLYCARBONATE	щδ	
*	MPP53	*	*	*	*	*	NF2	MINIATURE	METALLIZED	SAS	
PR	MPP51	*	GP2	PPMH	*	*	NF3	REGULAR	POLYPROPYLENE	ບີ້	
*	*	*	*	*	*	*	ZF2	MINIATURE			
*	*	*	*	*	*	*			SUPERMETALLIZED POLYPULSE	EPOXY CASE RECTANGULAR, RADIAL	
		*		-		*	ZF3	REGULAR		Qu	
*	PE53		NP2	*	*		MF2	MINIATURE	MYLAR (POLYESTER) & FOIL	ΠĀ	
MD-R	PE51	*	MP2	VH	*	*	MF3	REGULAR		C	
*	PP53	*	*	*	*	*	PF2	MINIATURE	POLYPROPYLENE	R	
*	PP51	*	LP2	PPH	*	*	PF3	REGULAR	& FOIL		
*	MPE7G	412	XG,JG,YG,ZG	*	*	*	DG3	REGULAR	METALLIZED MYLAR (POLYESTER)	ш д	
*	MPC7G	*	DG, RG, BG	*	*	*	HG3	REGULAR	METALLIZED POLYCARBONATE	METAL TUBE Rectangular, axial	
*	MPP7G	*	GG	*	*	*	NG3	REGULAR	METALLIZED POLYPROPYLENE	AR,	
*	*	*	*	*	*	*	ZG3	REGULAR	SUPERMETALLIZED POLYPULSE	AL BUL	
*	PE7G	*	NG, MG	*	*	*	MG3	REGULAR	MYLAR (POLYESTER) & FOIL	T	
*		*		*	*	*			· · · · ·	ME	
	PP7G		LG	*			PG3	REGULAR	POLYPROPYLENE & FOIL		
ZL, ZDL	MPE61	68	XL,JL,YL,ZL	*	*	218P, MPF	DL3	REGULAR	METALLIZED MYLAR (POLYESTER)	щ	
CL, BL, HSL	MPC61	410	DL, RL, BL	*	22E	260P,628P,LP8	HL3	REGULAR	METALLIZED POLYCARBONATE	A C	
PL	MPP61	*	GL	*	*	*	NL3	REGULAR	METALLIZED POLYPROPYLENE	¥.	
	*	*	*	*	*	*	ZL3	REGULAR	SUPERMETALLIZED POLYPULSE	METAL TUBE ROUND, AXIAL	
*		000	NL1, ML1	*	*	127P, XF	ML3	REGULAR	MYLAR (POLYESTER) & FOIL	E 3	
* MDL	PE61	383	INET, IVIET								
* MDL *	PE61 PP61	383		*	*	*	PL3	REGULAR	POLYPROPYLENE & FOIL	¥ ≊	

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AMERICAN CAPACITOR CORPORATION

DIELECTRIC SELECTION GUIDE

DIELECTRIC SELECTION GUIDE														
AMERICAN DIELECTRIC CODE	Α	С	D	F/G	Н	Κ	Μ	Ν	Ρ	S	Т	U	V	Ζ
Typical Characteristics of Capacitors	High Voltage Paper & Mylar	Combination Metallized Mylar & Polypropylene	Metallized Mylar	KF Polymer F = Foil G = Metallized	Metallized Polycarbonate	Kapton & Foil	Mylar & Foil	Metallized Polypropylene	Polypropylene & Foil	Polystyrene & Foil	Teflon & Foil	Metallized Teflon	Super Metallized Polypropylene	Super Metallized Polypulse
Capacitance Range in MFD	.001- 1.0	.001- 50.0	.001- 100.0	.10- 100.0	.001- 100.0	.001- 10.0	.001- 10.0	.001- 100.0	.001- 5.0	.001- 10.0	.001- 5.0	.001- 10.0	.001- 100.0	.10- 50.0
Standard Tolerance Ranges	5% - 20%	1%- 20%	1%- 20%	10% - 20%	1%- 20%	5% - 20%	1%- 20%	1%- 20%	1%- 20%	1%- 20%	1% - 20%	1%- 20%	1%- 20%	1%- 20%
DC Voltages	1000V - 40,000V	100V - 600V	25V - 40,000V	200V - 1000V	25V - 4000V	100V - 600V	10V - 600V	100V - 4000V	50V - 1000V	50V - 1000V	25V - 1000V	25V - 1000V	200V - 2000V	50V - 1000V
AC Voltages	400VAC - 1200VAC	50VAC - 250VAC	10VAC - 2000VAC	N/A	10VAC - 2000VAC	50VAC - 1200VAC	10VAC - 600VAC	25VAC - 2000VAC	10VAC - 600VAC	50VAC - 350VAC	10VAC - 350VAC	10VAC - 350VAC	25VAC - 2000VAC	25VAC - 2000VAC
Dissipation Factor % at 60 HZ	.10	.10	.10	5.0	.05	.25	.15	.03	.03	.03	.03	.03	.03	.03
Dissipation Factor % at 1000 HZ	.40	.40	.40	1.8	.15	.40	.25	.10	.03	.03	.03	.03	.10	.10
Insulation Resist- ance, megohm- MFD at 25°C	30K	50K	30K	1K	300K	50K	50K	500K	500K	1,000K	10,000K	10,000K	200K	200K
Dielectric Absorp- tion at 25°C	.20	.20	.20	N/A	.08	N/A	.20	.03	.03	.02	.02	.02	.03	.08
Operating Range °C	- 55° +125°	-55° +125°	-55° +125°	-35° +180°	-55° +125°	- 55° +250°	- 55° +125°	-55° +105°	- 55° +105°	- 55° +85°	- 55° +250°	- 55° +250°	-55° +105°	- 55 +125°
Capacitance Cold Change with Hot Temperature	-8% +12%	- 3% +6%	- 6% +15%	- 50% +40%	- 2% +2%	N/A	- 6% +15%	+2% -4%	+2% - 4%	+1% - 1%	+1% -1%	+1% - 1%	+2% -4%	- 2% +2%
Best Characteristics	High Voltage	Low T/C	Low Cost	Small Size	Good Electrical Properties	High Temper- ature	Low Cost	Low DF	Low DF	High Stability	Excellent Electrical Properties	Excellent Electrical Properties	Very High Current	Very High Current
Relative Cost	Higher	Moderate	Lowest	Highest	Moderate	Higher	Low	Moderate	Moderate	Higher	Highest	Highest	Moderate	Higher

This Dielectric selection guide is intended to give the engineer a quick reference of the electrical characteristics for many different dielectrics. Values shown are typical for each dielectric. If you're not sure which dielectric is best for your specific application, please contact the American Capacitor sales staff, we have knowledgeable sales engineers that will be glad to help find exactly the right capacitor for your application. For specific Acceptance Criteria, Parametric Trend Curves, Environmental Data and Size information for all Case Styles refer to the Engineering Data Sheets available on the Dielectric you need.