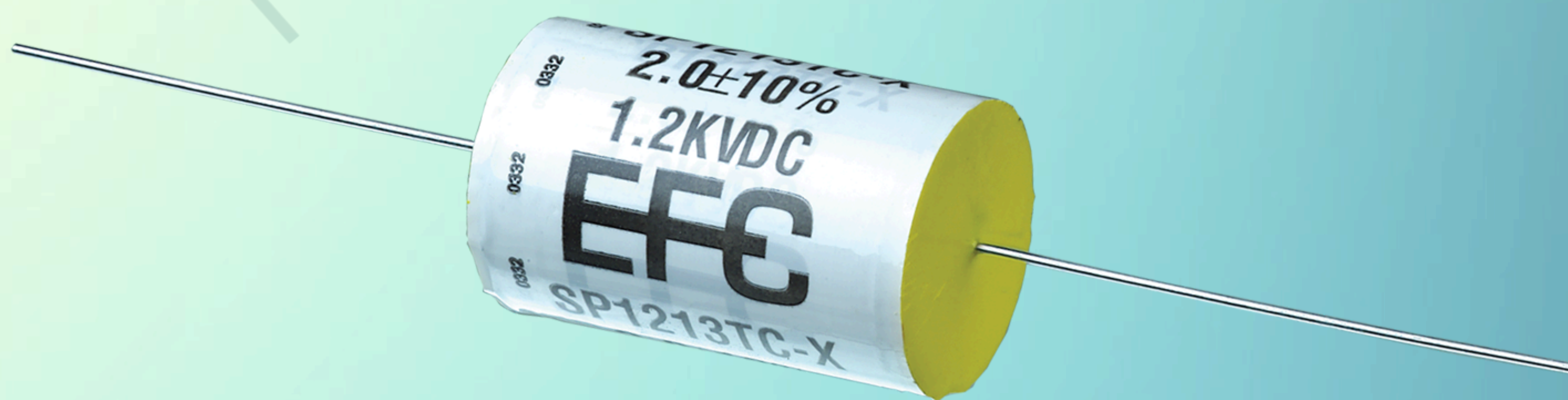
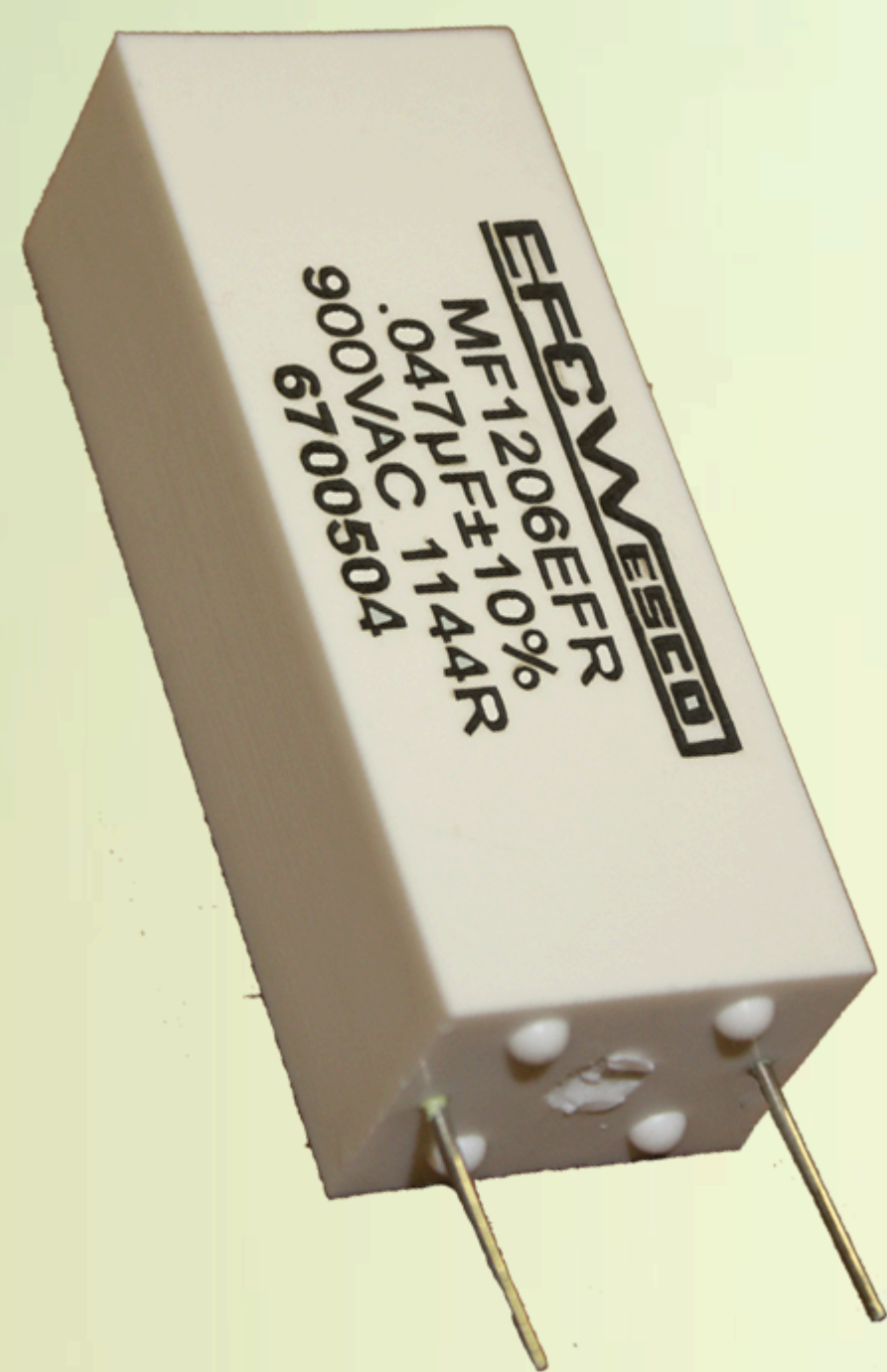


EFC WESCO

Your Complete Source for Film Capacitors
www.filmcapacitors.com



Full Product Line

EFC/Wesco is your leading source for Film and Power Capacitors. We offer a complete line of ENEC and UL recognized EMI Suppression capacitors. The EMI Suppression films are "X" and "Y" class radial lead Polypropylene box style, with voltage ratings to 440VAC and capacitance values to 10.0µF. Our standard film line offers Epoxy Dipped Radial Lead, IGBT Snubbers, RC Networks, Feed-Thru designs, and DC Link capacitors. Not to mention a wide variety of metallized and foil versions of Polyester, Polypropylene, Polyphenylene Sulfide as well as high-quality Polystyrene capacitors with excellent capacitance stability. We can also supply plastic encased capacitors, rectangular or round, axial or radial lead, made to your specifications. **EFC/Wesco** specializes in "tight" tolerances and custom designs.



General Product Nomenclature

*** 1 3 0 6 E F R - 3 - . 0 0 1 - 1 - 5**

Dielectric Code:
1206 - Polypropylene/Foil
1213 - Metallized Polypropylene
1306 - Polyester/Foil
1313 - Metallized Polyester
1613 - Metallized Polycarbonate
1906 - Polystyrene/Foil
2113 - Metallized Polyphenylene Sulfide

Case Code:
TC - Wrap & Fill - Round - Axial
TF - Wrap & Fill - Flat - Axial
EC - Epoxy Case - Round - Axial
EFR - Epoxy Case - Flat - Radial
DFR - Dipped Construction - Flat - Radial
HS - Hermetically Sealed

Size Code:
3 - Standard
2 - Miniature (1313DFR Series Only)
X - Non-standard
Or one letter case code

Capacitance:
In microfarads (μ F)

Voltage:
.35 - 35 VDC
0 - 50 VDC
1 - 100 VDC
2 - 200 VDC
3 - 300 VDC
4 - 400 VDC
10 - 1000 VDC
1.6K - 1600VDC
Etc.

Tolerance:
1 - 1%
2 - 2%
5 - 5%
Etc.

*** Options**
The following options are available from EFC by specifying the appropriate prefix.
A - Aluminum foil electrodes
T - Tin foil electrodes
HV - High voltage DC applications
AC - AC voltage rated applications
MF - Metallized and foil hybrid for maximum pulse current applications
M - Dual metallized design for pulse current applications
SP - Low ESR, high RMS current applications
PC - Direct mount terminals for high current filter applications
FT - Feed thru filter applications
RC - Resistor capacitor suppressors

EMI Suppression Nomenclature

M K P X 1 4 4 0 1 0 5 K 2 7 H 0 0

Type:
Metallized
Polypropylene

Class:
X1
X2
Y2

Rated Voltage (AC):
275 = 250 / 275
300 = 250 / 300
310 = 275 / 310
440 = 440

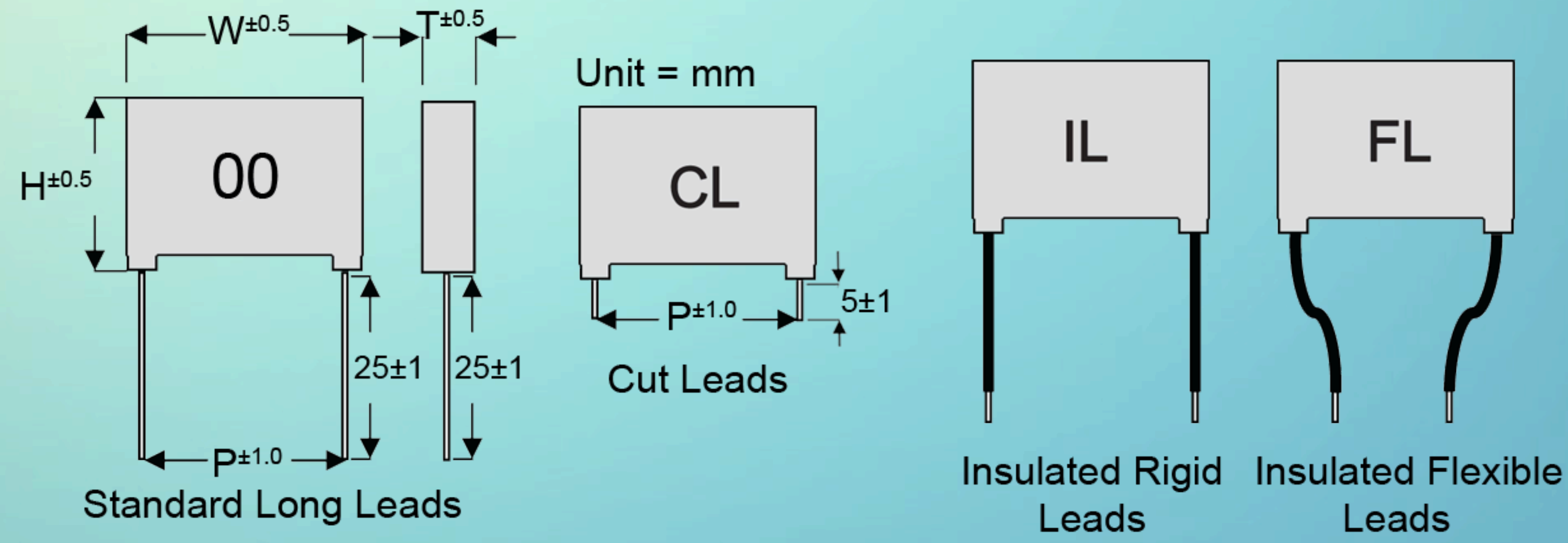
Capacitance Code (pF):
First two digits are significant digits.
Third digit is number of zeros.
Ex: 105 = 1,000,000pF = 1 μ F

Tolerance Code:
J - \pm 5%
K - \pm 10%
M - \pm 20%

Pitch (mm):
07 = 7.5 10 = 10.0
15 = 15.0 22 = 22.5
27 = 27.5 37 = 37.5

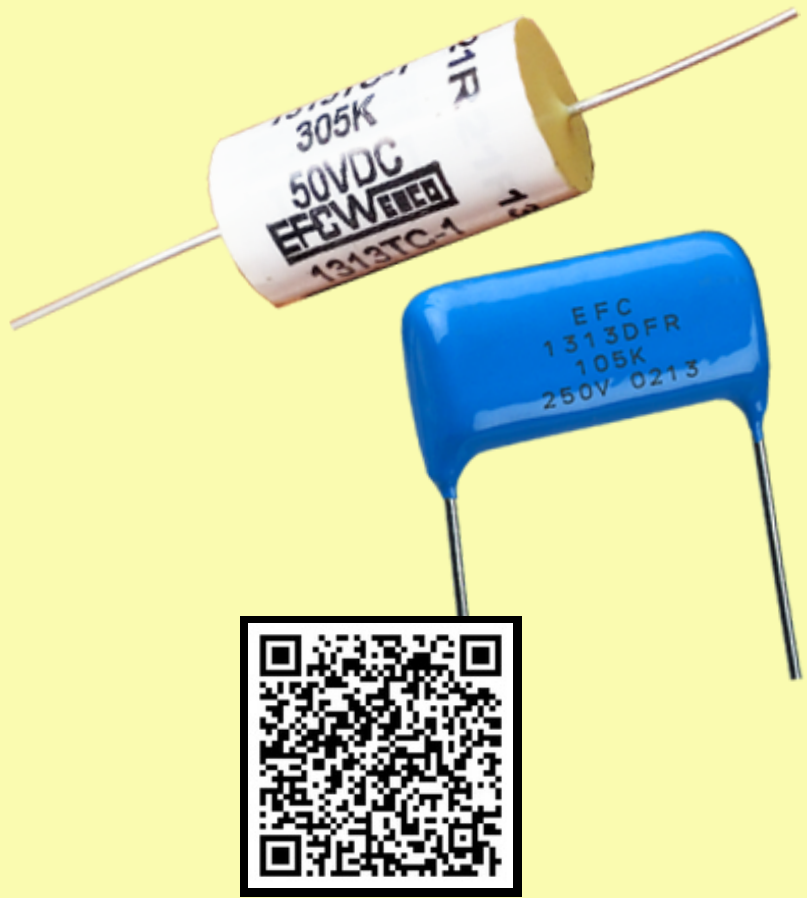
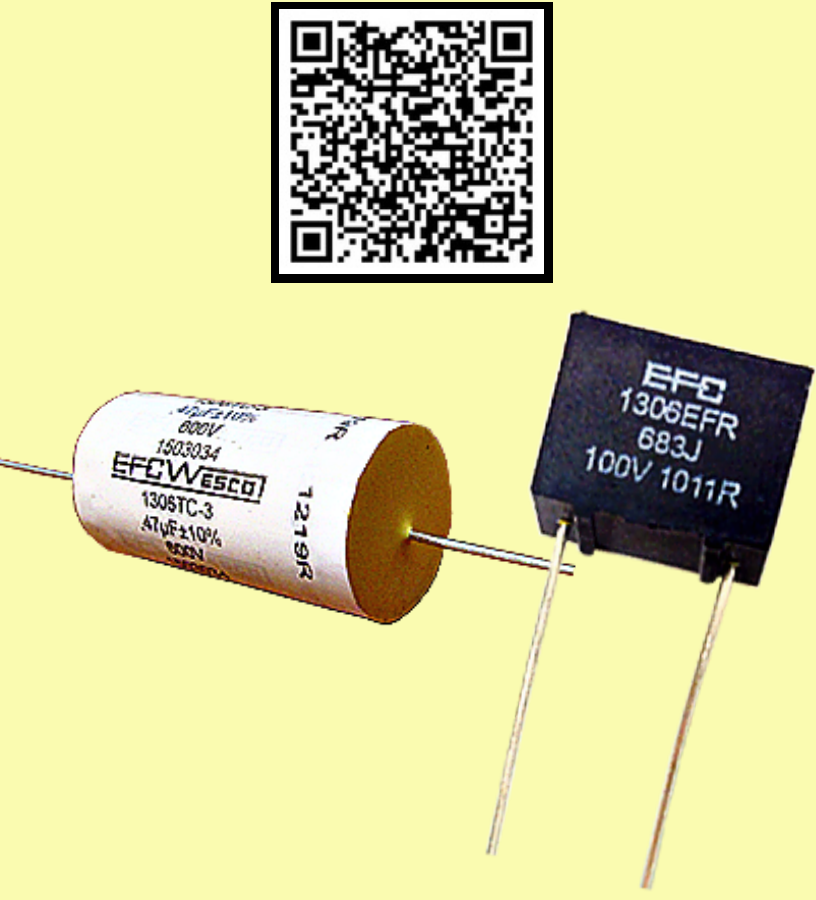
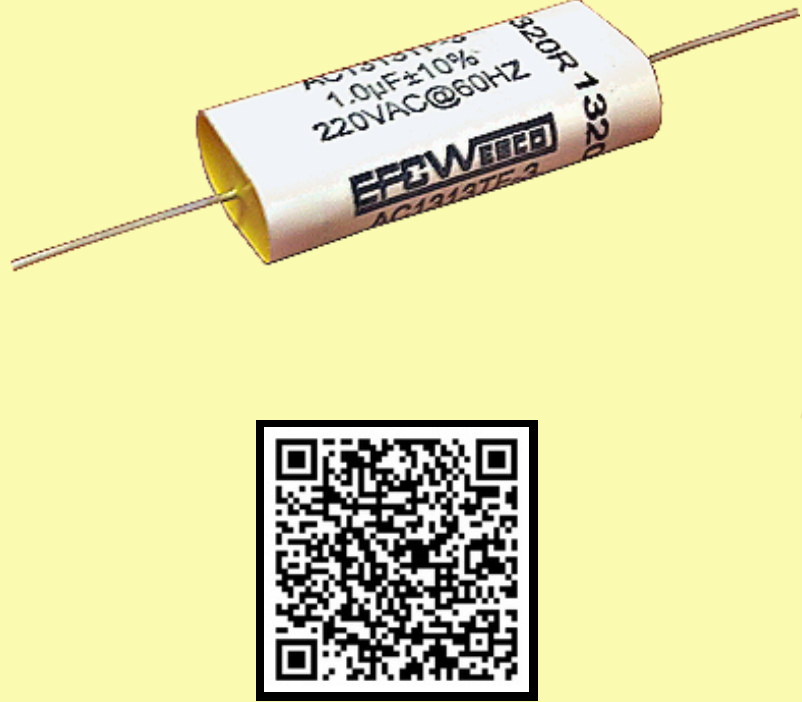
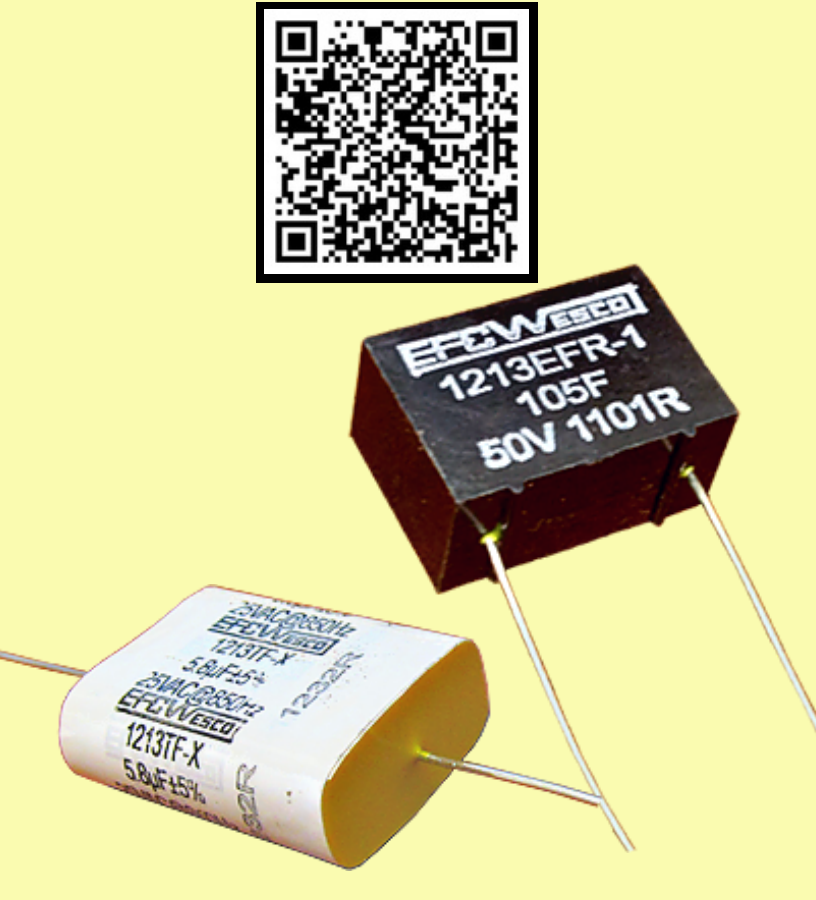
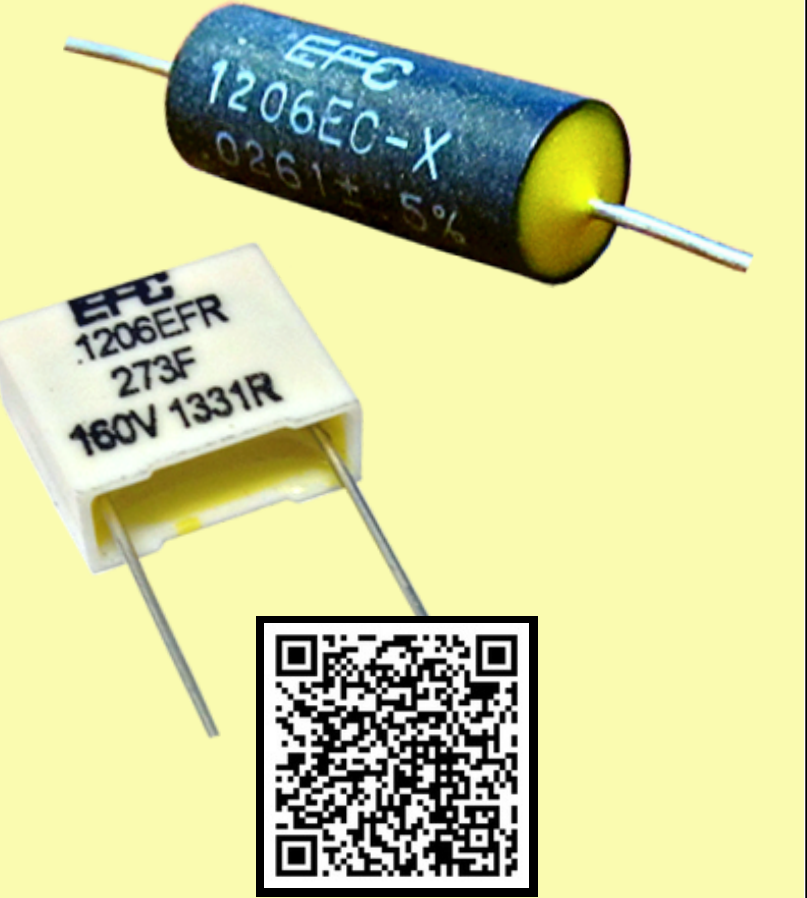
Color:
Y - Yellow
H - Grey
G - Green
B - Blue
K - Black

Lead Code:
00 - Standard Long
CL - Cut
IL - Insulated Rigid
FL - Insulated Flexible





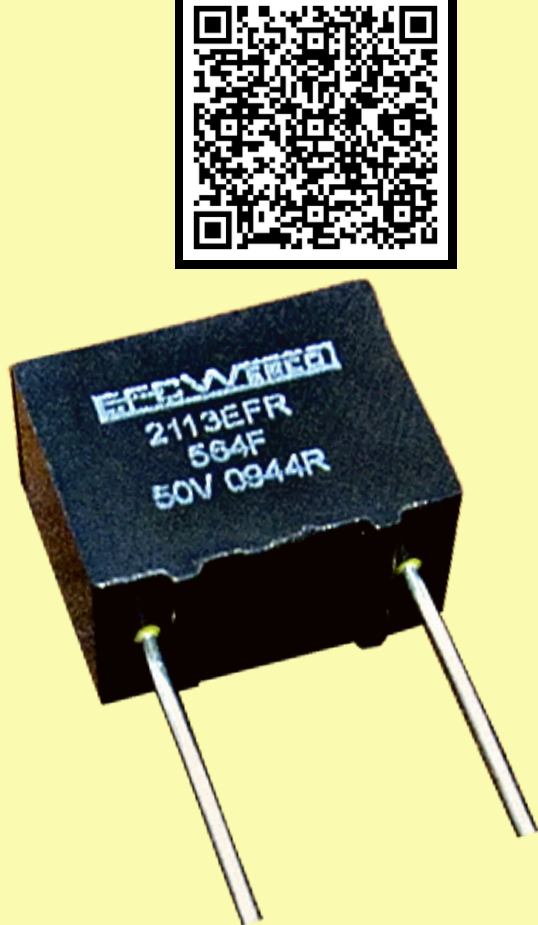





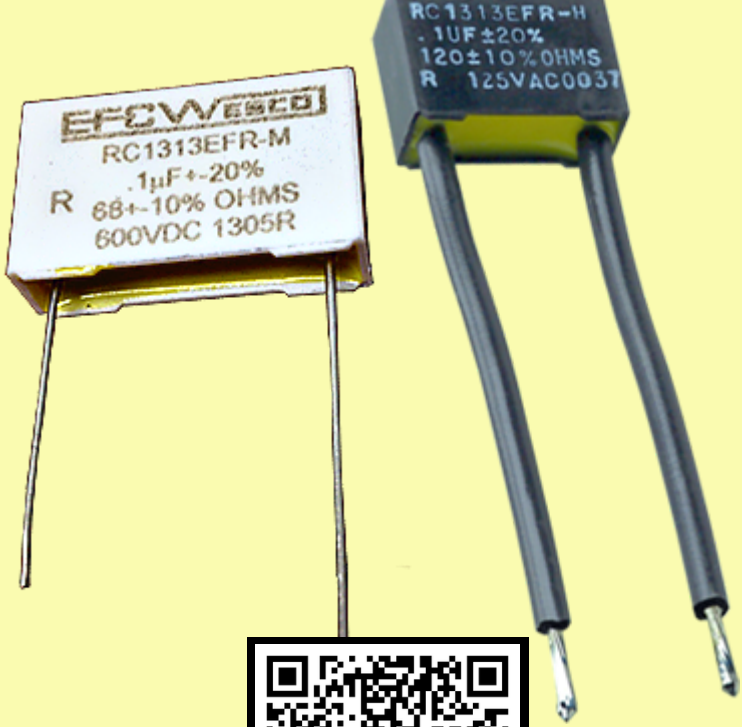



Your Complete Source for Film Capacitors

POLYESTER			POLYPROPYLENE	
Metallized	Film/Foil	AC	Metallized	Film/Foil
				
Series:				
1313	1306	AC1313	1213	1206
Features:				
Flame retardant to UL94, Small size, Self healing, Low costs	Flame retardant to UL94, Cost effective, Moderate temperature choice, Small size, DV/DT ratings in excess of 1000 V/ μ s	Flame retardant to UL94, Quality AC applications are assured through the use of specially metallized dielectrics and end terminations	Flame retardant to UL94, Excellent long term stability, Self healing, High insulation resistance, Low dissipation factor, High frequency operation	Flame retardant to UL94, Excellent long term stability, High insulation resistance, Low dissipation factor, Negative temperature coefficient, High frequency operation, High DV/DT ratings
Voltage Range:				
50 VDC to 1000 VDC 40 VAC to 250 VAC	50 VDC to 1000 VDC 40 VAC to 250 VAC	150 VAC and 250 VAC 60 HZ	50 VDC to 1000 VDC 40 VAC to 250 VAC	50 VDC to 1000 VDC 40 VAC to 250 VAC
Capacitance Range:				
0.001 μ F to 20 μ F	0.001 μ F to 10 μ F	0.047 μ F to 12 μ F	0.001 μ F to 20 μ F	0.001 μ F to 5 μ F
Temperature Range:				
-55°C to 85°C at rated voltage to 125°C w/ 50% voltage derating	-55°C to 85°C at rated voltage to 125°C w/ 50% voltage derating	-25°C to 60°C at rated voltage	-55°C to 105°C at rated voltage	-55°C to 105°C with 50% voltage derating above 85°C
Application:				
Medical electronics, Telecommunications, High voltage power supplies	Recommended for DC applications where blocking capacitance stability is not a critical factor, Medical electronics, Telecommunications	General purpose 60 HZ applications, Not recommended for "across the line" applications	Timing circuits, Switch mode power supplies (SMPS)	Timing circuits, Switch mode power supplies (SMPS), Snubber circuits
Packaging:				
Axial wrap and fill, Radial lead box, Axial lead epoxy tube	Axial wrap and fill, Radial lead box, Axial lead epoxy tube	Axial wrap and fill	Axial wrap and fill, Radial lead box	Axial wrap and fill, Radial lead box, Axial lead epoxy tube
Please consult factory for special requirements, including non-standard values outside the stated ranges				

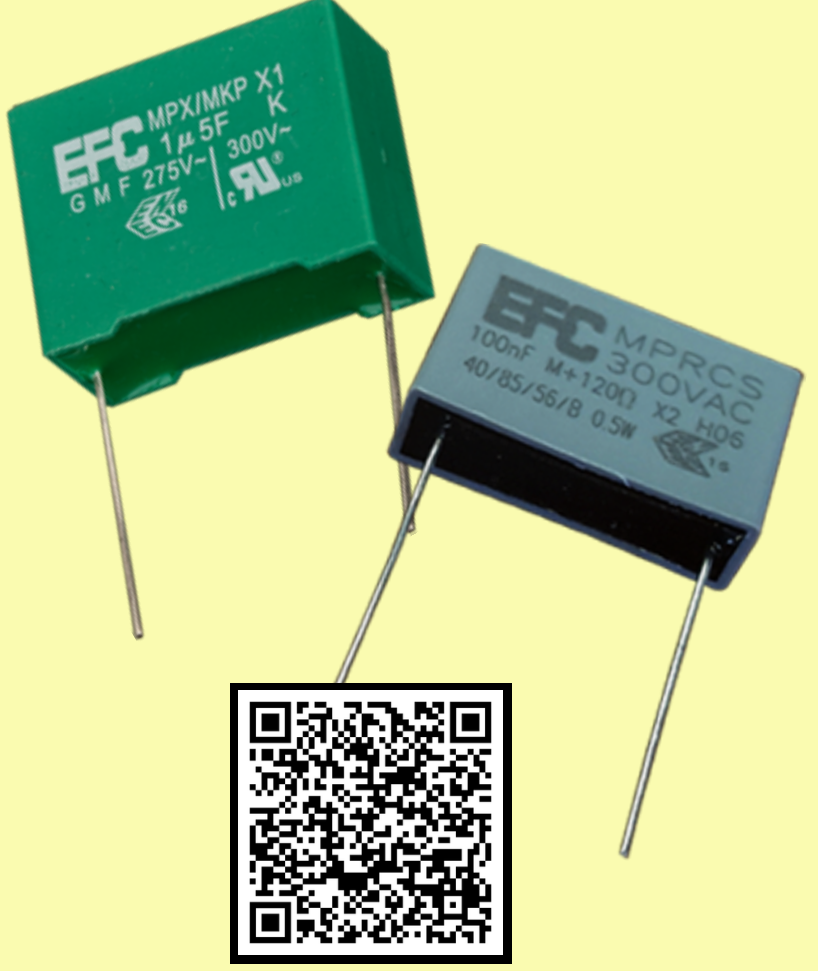



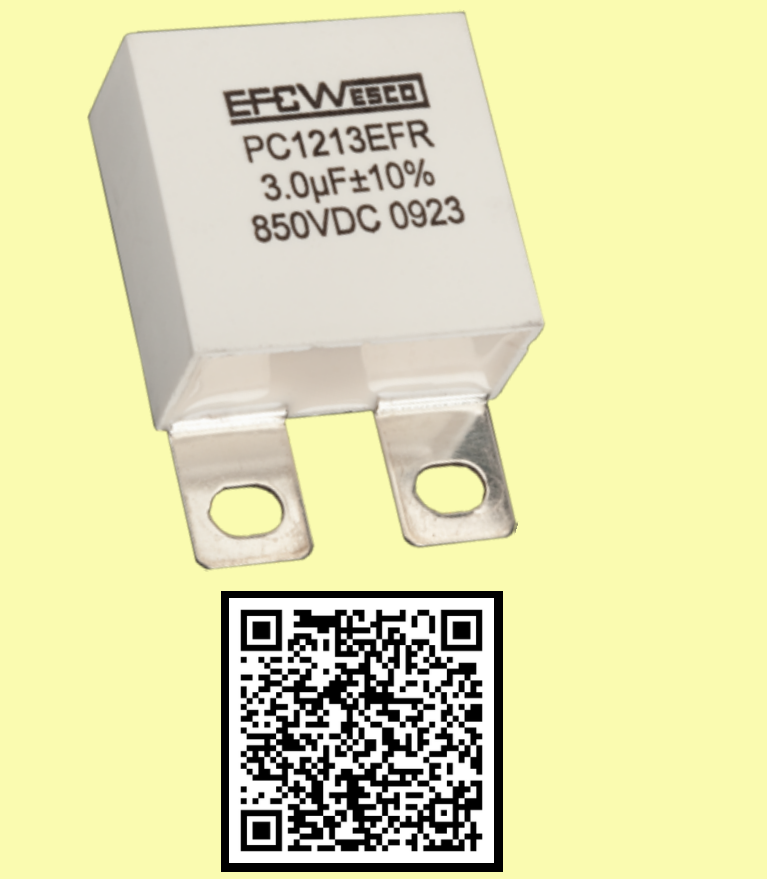


Your Complete Source for Film Capacitors

POLYSTYRENE	POLYPHENYLENE SULFIDE	HIGH VOLTAGE		RC NETWORK
		Polypropylene	Polyester	
 LIMITED AVAILABILITY 	 	 	 	 
Series:				
1906	2113	HV1213TC	HV1313TC	RC1313EFR
Features:				
Flame retardant to UL94, High insulation resistance, Very low dielectric absorption, Long term stability, Negative linear temperature coefficient	Flame retardant to UL94, Miniature size, Long term stability, High insulation resistance, Low dissipation factor, High temperature rating	Flame retardant to UL94, Self healing, Long life availability, Limited AC applications	Flame retardant to UL94, Small size, Self healing, Long life availability, Limited AC applications	Insulated wires available
Voltage Range:				
50 VDC to 600 VDC	50 VDC to 600 VDC 40 VAC to 250 VAC	2KVDC to 16KVDC Higher ratings available with custom designs	2KVDC to 15KVDC Higher ratings available with custom designs	200 VDC to 630 VDC 125 VAC to 250 VAC
Capacitance Range:				
Contact the factory	0.001 μ F to 2 μ F	0.001 μ F to 1 μ F	0.001 μ F to 0.1 μ F	0.1 μ F to 1 μ F
Temperature Range:				
-55°C to 85°C at rated voltage	-55°C to 125°C at rated voltage	-55°C to 85°C at rated voltage	-55°C to 85°C at rated voltage	-40°C to 80°C at rated voltage
Application:				
Timing circuits, Filters	Timing circuits, Filters, Military, Replacement for Polycarbonate Film	High voltage DC power supplies	High voltage DC power supplies	Noise and arc suppression
Packaging:				
Axial wrap and fill, Axial lead epoxy tube	Axial wrap and fill, Radial lead box, Hermetically sealed	Axial wrap and fill	Axial wrap and fill	Radial lead box
Please consult factory for special requirements, including non-standard values outside the stated ranges				



Your Complete Source for Film Capacitors

EMI SUPPRESSION	POLYPROPYLENE SNUBBER	METALLIZED POLYPROPYLENE PULSE	HIGH CURRENT METALLIZED POLYPROPYLENE	DIRECT MOUNT SNUBBER
				
Series:				
MKP	MF1206	M1213	SP1213	PC1213
Features:				
Non-inductive construction using Metallized Polypropylene dielectric packaged in a UL94V-0 plastic case and epoxy resin, UL and ENEC recognized.	Flame retardant to UL94, Internal series construction of double-sided metallized carrier, Foil contact plates, "Self healing" metallized dielectric, High current/pulsing capabilities	Flame retardant to UL94, High peak/pulse current, Low ESR, Low inductance, High frequency operation, Self healing	Flame retardant to UL94, Special metallization, High-tech terminations, High frequency	Low ESR, Low dielectric absorption, Screw terminals for easy IGBT mounting, High RMS/Peak currents, Low self-inductance
Voltage Range:				
250 VAC to 440 VAC	1000 VDC to 2000 VDC 350 VAC to 560 VAC	850 VDC to 3000 VDC 450 VAC to 750 VAC	250 VDC to 850 VDC 160 VAC to 450 VAC	850 VDC to 3000 VDC 500 VAC to 750 VAC
Capacitance Range:				
0.001 μ F to 10 μ F	0.001 μ F to 0.039 μ F	0.047 μ F to 4.7 μ F	0.15 μ F to 30 μ F	0.022 μ F to 4.7 μ F
Temperature Range:				
-40°C to 100°C at rated voltage	-55°C to 85°C at rated voltage to 105°C w/ 25% voltage derating	-55°C to 85°C at rated voltage	-55°C to 105°C at rated voltage	-55°C to 85°C at rated voltage
Application:				
EMI suppression, Home appliances, Lighting, Audio and TV circuits, Antenna coupling, Across the line	High current pulse applications	DC, AC, and pulse applications	Hi-tech switch mode power supplies	Uninterruptable power supplies (UPS), SCR commutation, Switch mode power supply (SMPS) protection, IGBT module protection
Packaging:				
Radial lead box	Axial wrap and fill, Radial lead box	Axial wrap and fill, Radial lead box	Axial wrap and fill	Various terminal styles available
Please consult factory for special requirements, including non-standard values outside the stated ranges				



C-Series DC Link Capacitors

EFC/Wesco's C-Series line of DC Link Capacitors are made from highly reliable low loss metallized polypropylene film. Due to their outstanding electrical characteristics and long life, they are an ideal, cost effective choice for replacing high voltage electrolytic capacitors.

Applications

- Solar/wind inverters
- Motor drives
- UPS systems
- Switch mode power supplies
- DC bus bar support
- Electric drive systems

Key Benefits

- High density design: capacitance/volume ratio
- Life expectancy to 200,000 hours
- Low ESR/dissipation factor
- High RMS current capabilities
- Non-polar dry construction
- Excellent mechanical stability

Resources

Datasheets: www.filmcapacitors.com
Inquiries: sales@filmcapacitors.com
Samples available upon request



DC Link Nomenclature

C	5	1	S	C	5	0	1	5	0	7	K	T	X	X	C
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Product Series:

- C51 - Round Aluminum Case
- C52 - Radial Lead Case
- C53 - Tape Wrapped Case
- C54 - Rectangular Aluminum Case
- C55 - Plastic Case
- C56 - Dual Capacitor Rectangular Aluminum Case
- C58 - Round Plastic Case

Material:

- S - Metallized
- D - Double Sided Film
- M - Mix
- F - Foil
- K - Multi-Series

Shape Code:

- R - Rectangle
- B - Box
- C - Cylindrical
- E - Epoxy
- S - Seal

Capacitance: pf

First two digits are significant digits.
Third digit is number of zeros.
Ex: 507 = 500µF

Rated Voltage:

First two digits are significant digits.
Third digit is number of zeros.
Ex: 501 = 500V

Tolerance:
J - ±5%
K - ±10%

Lead Type:

- FXX - Nut
- MXX - Screw
- TXX - Lug
- LXX - Lead Wire
- XX - Lead size/Code

Order Code:

- S - Standard
- C - Customized