



#### FEATURES

High Pulse Currents - High voltage

#### APPLICATIONS

Power Semiconductor Circuits - SCR Commutation  
Ballast controls - Switching Power Supplies

<b>Operating Temperature Range</b>	<b>-55°C to +105°C</b>						
<b>Capacitance Tolerance</b>	±10% at 1 kHz, 25°C +5% optional						
<b>AC voltage (50/60 Hz)</b>	<b>WVDC</b>	<b>250</b>	<b>400</b>	<b>630</b>	<b>1000</b>	<b>1600</b>	<b>2000</b>
	<b>VAC</b>	160	200	400	630	650	700
For T>+85°C, The voltage (DC/AC) must be decreased by (1.5/2.25)% per °C							
<b>Dissipation Factor (MAX) 25°C</b>	<b>Frequency (kHz)</b>	<b>C&lt;0.1uF</b>		<b>0.1uF&lt;C&lt;1uF</b>		<b>C&gt;1uF</b>	
	<b>1</b>	0.05%		0.04%		0.05%	
	<b>10</b>	0.05%		0.06%		-	
	<b>100</b>	0.16%		-		-	
<b>Insulation Resistance @25°C (&lt;70% RH) for 1 minute at 100VDC applied</b>	<b>Capacitance</b>			<b>Insulation Resistance</b>			
	<b>&lt;0.33µF</b>			100000 MΩ			
	<b>&gt;0.33µF</b>			30000 MΩxµF			
<b>Self Inductance</b>	<1 nano-Henry per mm of lead spacing						
<b>Capacitance Drift Factor</b>	<0.5% after 2 years at 40°C						
<b>Load Life</b>	<b>2000 Hours, +85C with 125% of rated voltage</b>						
	<b>Capacitance Change</b>			≤1% of initially measured value			
	<b>Dissipation Factor</b>			≤0.001 at 10kHz and 25°C for C≤1uF ≤0.001 at 1kHz and 25°C for C>1uF			
	<b>Insulation Resistance</b>			≥50% of maximum specified value			
<b>Reliability (0.5xRated Voltage, 40°C) 1 FIT=1 failure/1 billion component hours</b>	2 Fit, VDC<400 WVDC 1 Fit, VDC>400 WVDC						
	<b>Capacitance Change</b>			≤10% of initially measured value			
	<b>Dissipation Factor</b>			≤200% of initially specified value			
	<b>Insulation Resistance</b>			≥50% of maximum specified value			
<b>Damp Heat test</b>	<b>56 days at 40°C with 90 to 95%RH, +40°C and no voltage applied</b>						
	<b>Capacitance Change</b>			≤5% of initially measured value			
	<b>Dissipation Factor</b>			≤0.005 at 1kHz and 25°C			
	<b>Insulation Resistance</b>			≥50% of maximum specified value			
<b>Self Inductance</b>	<1 nano-Henry per mm of lead spacing						
<b>Capacitance Drift Factor</b>	<0.5% after 2 years at 40°C						
<b>Capacitance Temperature Coefficient</b>	-200 ppm/°C, ±100ppm/°C						
<b>Dielectric Strength</b>	<b>Terminal to Terminal</b>				<b>Terminal to case</b>		
	160% of rated VDC or 150% VAC applied for 2 Seconds and 25°C				3kVAC @ 50/60 Hz applied between terminals and case for 60 seconds at 25°C		
<b>Dielectric Construction</b>	Polypropylene Metallized film						
<b>Plastic Case and Epoxy Resin</b>	Flame Retardant materials (UL 94V-0)						
<b>Leads</b>	Lead free tinned copper leads						



L	18	26.5	32	42.5
S	15	22.5	27.5	37.5
d	0.8	0.8	0.8	1.2
LL	5.0±1.0	5.0±1.0	30±5.0	30±5.0

Permissible (sinusoidal) AC voltage versus frequency for a temperature rise of 10°C  
Not for across the line applications



