



Metallized Polypropylene Capacitor -Radial

MPB



Construction:

Dielectric : Polypropylene Film .
 Electrodes : Aluminum Metallization.
 Winding : non-inductive type.
 Leads : Tinned Wire.
 Outer coating : Flame retarding plastic case and epoxy resin filled.

Feature:

Low Dissipation Factor at high frequency.
 High stability of capacitance & DF.
 Self-healing property.
 High insulation resistance.

Recommended Application:

Typical for S-correction in TV-set .
 Electronic ballast circuits.
 Switching power supply circuits.
 Video tape recorder.

Electrical Characteristics:

Related Documents	IEC 60384-16							
Rated Voltage	100VDC , 250VDC , 400VDC , 630VDC , 1000VDC*							
Rated Temperature	-40°C ~ +85°C.							
Usable upper category temperature	+105°C (Derating ratio of rated voltage to +85°C ~ +105°C:1.5% per °C for Rated Voltage) (*For temperature between +85 and +105 , a decreasing factor of 2.0% per degree on the nominal voltage $V_R(d.c)$ has to be applied. For temperature between +85 and +105 , a decreasing factor of 1.25% per degree on the nominal voltage $V_R(a.c)$ has to be applied.)							
Capacitance Range	0.01 μ F ~ 3.3 μ F.							
Capacitance Tolerance	\pm 3% (H) , \pm 5% (J) , \pm 10% (K)							
Dissipation Factor	KHz	$C \leq 0.1 \mu F$	$0.1 < C \leq 1.0 \mu F$	$1.0 < C \leq 3.0 \mu F$	$3.0 < C \leq 5.0 \mu F$	$5.0 < C \leq 10 \mu F$		
		$\leq 0.10 \%$	$\leq 0.10 \%$	$\leq 0.10 \%$	$\leq 0.10 \%$	$\leq 0.10 \%$	$\leq 0.10 \%$	
	100	$\leq 0.40 \%$	$\leq 0.70 \%$	$\leq 1.20 \%$	$\leq 1.80 \%$	$\leq 2.80 \%$		
Insulation Resistance	Terminal to Terminal: (at $20 \pm 5^\circ C$) , Voltage charge time : 1 minute. Voltage charge : 100VDC . $\geq 30000 M\Omega$ for $C \leq 0.33 \mu F$, $\geq 10000 M\Omega \times \mu F$ for $C > 0.33 \mu F$.							
Withstand Voltage	Terminal to Terminal: (at $20^\circ C \pm 5^\circ C$) $1.6 \times V_R$ applied for 2sec. (cut off current 10mA)							
Rated Voltage Pulse Slope dV/dt (V/ μ s)	Pitch	7.5m/m	10m/m	15m/m	20m/m	27.5m/m	32.5m/m	37.5m/m
	V_R							
	100VDC	130	110	100	70	50	35	25
	250VDC	240	220	200	130	100	70	50
	400VDC	-----	350	300	200	150	110	80
	630VDC	-----	420	400	250	180	140	90
	1000VDC	-----	-----	450	300	200	-----	-----

