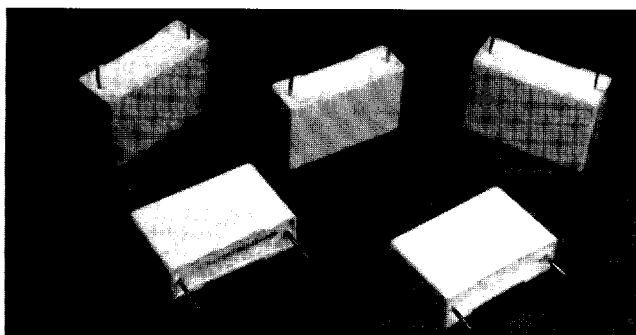


Power Capacitors Type RBPP

Radial Leaded Capacitors Metallized Polypropylene Dielectric Preformed Case with Epoxy Fill



Insulation Resistance	
Category	160VDC - 1000VDC
MegOhms x μ F	200,000
MegOhms Maximum (Need Not Exceed)	500,000
Test Voltage	100VDC
Electrification Time	60 Seconds

Physical

- | | |
|----------------------|--|
| Dielectric Material | • Polypropylene (Metallized) |
| Electrode Material | • Vapor Deposited Aluminum |
| Winding Construction | • Non-inductive, extended Metallized Film |
| Lead Material | • Tinned copper wire |
| Enclosure | • Preformed case with epoxy fill. |
| Component Marking | • Logo, capacitance, tolerance, rated voltage |
| Temperature Range | • -55°C to 105°C
-55°C to 85°C at rated voltage.
From 85°C to 105°C derate DC voltage rating 1.25%/°C, AC voltage 1.5%/°C. |
| Temperature Coef. | • $\pm 2\%$ from -40°C to 85°C. |
| Flame Retardancy | • UL 94 VO |
| Packaging | • Bulk, 7.5-15 mm L.S. available on tape and reel. |

Electrical

- | | |
|-----------------------|--|
| Capacitance Range | • .0010 μ F to 4.7 μ F @ 1KHz |
| Tolerance | • .001 μ F to 4.7 μ F $\pm 5, \pm 10$ (J,K)
$\pm 2\%$ (G) available special order |
| Voltage Range | • 160VDC to 1000VDC
100VAC to 450VAC |
| Dissipation Factor | • Cap $\leq 0.1\mu$ F, DF $\leq 0.1\%$ at 10 KHz
• Cap $> 0.1\mu$ F, DF $\leq 0.1\%$ at 1 KHz |
| Dielectric Strength | • 1.6 x rated VDC for 2 seconds |
| Dielectric Absorption | • .05% typical |
| Insulation Resistance | • See table |

Long Term Stability

$\pm 1.0\%$ over two years at a temperature of between 20°C & 40°C and a RH of between 40% and 60%.

Performance Testing

Accelerated Dry Life:

- | | |
|--------------------------|---|
| Test Conditions | |
| Temperature | • 85°C $\pm 3.0^\circ$ C |
| Applied Voltage | • 1.25 x rated DC voltage
1.25 x rated AC voltage @ 60Hz |
| Test Duration | • 1000 hours |
| Performance Requirements | |
| Capacitance | • $\delta < 5\%$ |
| Dissipation Factor | • $< .15\%$ @ 1 KHz |
| Insulation Resistance | • $> 50\%$ of initial limit |

Humidity:

- | | |
|--------------------------|-----------------------------|
| Test Conditions | |
| Temperature | • 40°C $\pm 3.0^\circ$ C |
| Applied Voltage | • Zero voltage |
| Humidity | • 93% RH |
| Test Duration | • 500 hours |
| Performance Requirements | |
| Capacitance | • $\delta < 5\%$ |
| Dissipation Factor | • $< .15\%$ @ 1 KHz |
| Insulation Resistance | • $> 50\%$ of initial limit |

Resistance to Solder Heat:

- | | |
|--------------------------|-----------------------------|
| Test Conditions | |
| Solder Temperature | • 260°C $\pm 5.0^\circ$ C |
| Test Duration | • 10 seconds ± 1 second |
| Performance Requirements | |
| Capacitance | • $\delta < 2.0\%$ |

Lead Pull:

Must withstand a tensile force of 5 lbs applied to each lead for 5 seconds

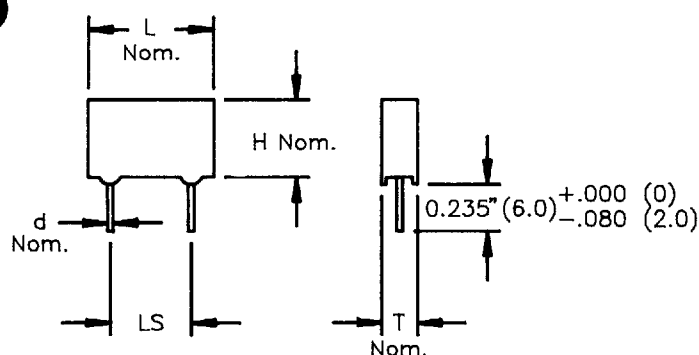
Power Capacitors

Type RBPP

Radial Leaded Capacitors

Metallized Polypropylene Dielectric

Preformed Case with Epoxy Fill



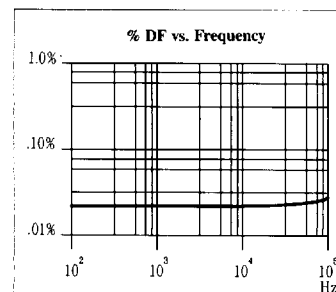
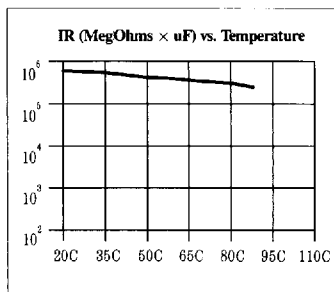
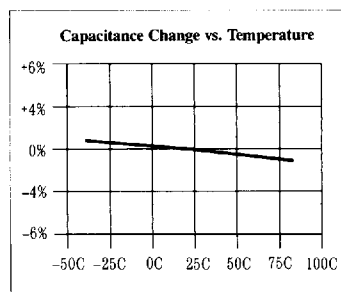
Part Numbering System

Example: 1.0μF 250VDC ± 10% Bulk Packed

RBPP 00105 25 K VO BK
 Type _____
 Capacitance Code _____
 Voltage Code _____
 Tolerance Code _____
 Case Code _____
 Packaging Code _____

		Code 16	Code 25	Code 40	Code 63	Code 91
		160VDC 100VAC	250VDC 200VAC	400VDC 250VAC	630VDC 280VAC	1000VDC 450VAC
Capacitance		Case Code	Case Code	Case Code	Case Code	Case Code
μF	Code					
0.0010	00102				B3	
0.0015	00152				C3	
0.0022	00222				C3	
0.0027	00272				C3	
0.0033	00332				C3	
0.0039	00392				D3	
0.0047	00472			C3	A4	
0.0056	00562			C3	A4	
0.0068	00682			C3	A4	
0.0082	00822			D3	B4	
0.0100	00103		B3	D3	B4	G6
0.0150	00153		B3	A4	C4	H6
0.0220	00223		C3	B4	F6	J6
0.0330	00333	C3	A4	C4	G6	O9
0.0470	00473	D3	B4	F6	H6	Q9
0.0680	00683	E3	C4	G6	H6	S9
0.1000	00104	C4	F6	H6	O9	V0
0.1500	00154	C4	H6	J6	Q9	W0
0.2200	00224	G6	J6	P9	S9	Y0
0.3300	00334	H6	P9	S9	V0	S0
0.4700	00474	H6	Q9	V0	W0	
0.6800	00684	J6	S9	W0	Y0	
1.0000	00105	S9	V0	W0	S0	
1.5000	00155	S9	W0	Y0		
2.2000	00225	W0	Y0	S0		
3.3000	00335	W0	S0			
4.7000	00475	Y0				

Case Code	Millimeters					L.S. AWG
	T Max	H Max	L Max	L.S. ±.4	d Nom	
B3	3.5	6.5	10.5	7.5	.6	#22
C3	4.0	9.0	10.5	7.5	.6	#22
D3	5.0	11.0	10.5	7.5	.6	#22
E3	6.0	12.0	10.5	7.5	.6	#22
A4	4.0	9.0	13.0	10	.6	#22
B4	5.0	11.0	13.0	10	.6	#22
C4	6.0	12.0	13.0	10	.6	#22
F6	5.0	11.0	18.13	15	.6	#22
G6	6.0	12.0	18.13	15	.6	#22
H6	7.5	13.5	18.13	15	.8	#20
J6	8.5	14.5	18.13	15	.8	#20
O9	6.0	15.0	26.63	22.5	.8	#20
P9	7.0	16.0	26.63	22.5	.8	#20
Q9	8.5	17.0	26.63	22.5	.8	#20
S9	10.0	18.5	26.63	22.5	.8	#20
V0	11.0	20.0	32.13	27.5	.8	#20
W0	13.0	22.0	32.13	27.5	.8	#20
Y0	15.0	24.5	32.13	27.5	.8	#20
S0	18.0	33.0	32.13	27.5	.8	#20



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