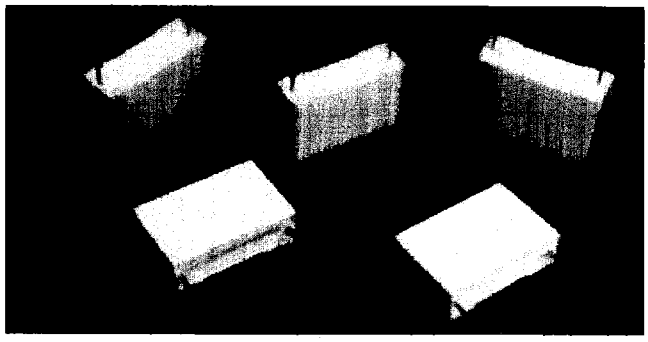
Power Capacitors
Type **RBPP**

Radial Leaded Capacitors
Metallized Polypropylene Dielectric
Preformed Case with Epoxy Fill



Insulation Resistance	
Category	160VDC - 1000VDC
MegOhms x µF	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.	• ±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	• .0010µF to 4.7µF @ 1KHz
Tolerance	• .001µF to 4.7µF ±5, ±10 (J,K) ±2% (G) available special order
Voltage Range	• 160VDC to 1000VDC 100VAC to 450VAC
Dissipation Factor	• Cap ≤0.1µF, DF ≤0.1% at 10 KHz • Cap >0.1µF, DF ≤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

±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 ± 3.0°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 ± 3.0°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 ± 5.0°C
Test Duration	• 10 seconds ± 1 second

Perfomance Requirements

Capacitance	• delta < 2.0%

Lead Pull:

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

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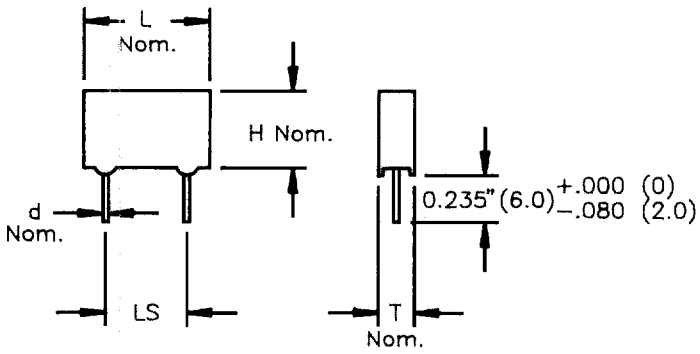

Part Numbering System

Example: 1.0µF 250VDC ± 10% Bulk Packed

RBPP 00105 25 K VO BK

- Type
- Capacitance Code
- Voltage Code
- Tolerance Code
- Case Code
- Packaging Code

Capacitance		Code 16 160VDC 100VAC	Code 25 250VDC 200VAC	Code 40 400VDC 250VAC	Code 63 630VDC 280VAC	Code 91 1000VDC 450VAC
µF	Code	Case Code	Case Code	Case Code	Case Code	Case 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 T Max	H Max	L Max	L.S. ±.4	d Nom	L.S. AWG
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