

Metallized Polypropylene Capacitors

Type PPI / PPR

Applications

- Alternating and direct Current Voltage
- Professional Applications
- Coupling / decoupling, Audio
- Instrumentation

Main Characteristics

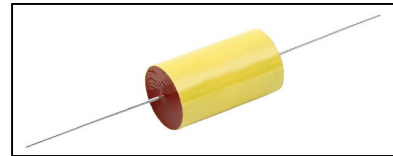
- Dry film technology
- Climatic category: 55/100/56
- Tolerances $\pm 10\%$
on request: $\pm 5\%$, $\pm 2\%$, $\pm 1\%$

Design

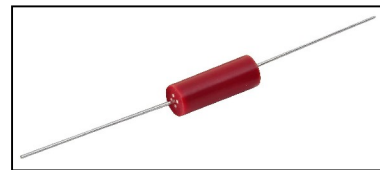
- Polyester tape wrap UL-V0
- Tinned copper axial leads
- Epoxy resin end-seal (UL-V0)

Mounting

- Indifferent positioning



PPR



PPI

1.0 Rated Values and Operational Data

| | | | | | | | |
|----|--------------------------------|-----|-------|-----|-----|-------|------|
| DC | Nominal Voltage U_N | 63 | (125) | 160 | 250 | (400) | 500 |
| | Test Voltage U_T 1 min, 23°C | 126 | 250 | 320 | 500 | 800 | 1000 |
| AC | Nominal Voltage U_{N-} | 40 | 100 | 100 | 150 | 200 | 200 |

2.0 Capacitance Range

| Cn => | 100 pF | 5.6 nF | 6.8 nF | 8.2 nF | 12 nF | 15 nF | 22 nF | 27 nF | 100 nF |
|---------|-----------------|--------|----------------|--------|-------|-------|-------|-------|--------|
| 63 VDC | | | | | | | | | |
| 125 VDC | | | | | | | | | |
| 160 VDC | | | | | | | | | |
| 250 VDC | | | | | | | | | |
| 400 VDC | | | | | | | | | |
| 500 VDC | | | | | | | | | |
| | Plastic housing | | Polyester wrap | | | | | | |

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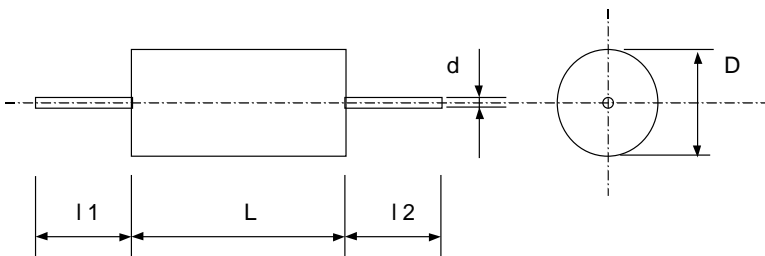
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3.0 Characteristics

| | | | Min | Typ | Max |
|--|---------------------------|---|-------------------|------------------|---|
| Dissipation Factor | tg δ | $C \leq 1000 \text{ pF}$, 1 MHz, 23°C $C > 1000 \text{ pF}$, 1 kHz, 23°C | | | 10×10^{-4} 5×10^{-4} |
| Insulation resistance 1min, 23°C, 50%HR | R_i [M Ω hms] | $U_R = 63\text{V}$, under 10V $U_R \geq 100\text{V}$, under 100V | 1.0×10^6 | | |
| Temperature coefficient | α_c | [ppm / °C] | | $-200^{+70/-50}$ | |

4.0 Dimensions, shape:



| | | | |
|----------------------|------------|---------|--------|
| $\varnothing D$ [mm] | ≤ 7.0 | 8 .. 10 | > 10 |
| $\varnothing d$ [mm] | 0.6 | 0.8 | 1.0 |
| l_1, l_2 | min 30 mm | | |

The capacitors are delivered in bulk

On special request we can deliver tape-mounted.

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Metallized Polypropylene Capacitors

Type PPI / PPR

PPI 63 VDC

| B4F4 Pos. | Type | Cn [nF] | Dimensions | | |
|--------------|-----------|------------|------------|--------|--------------|
| | | | ø [mm] | L [mm] | ø leads [mm] |
| 1 | PPI 6-310 | 0.100 | 5.0 | 11.0 | 0.6 |
| 2 | PPI 6-312 | 0.120 | 5.0 | 11.0 | 0.6 |
| 3 | PPI 6-315 | 0.150 | 5.0 | 11.0 | 0.6 |
| 4 | PPI 6-318 | 0.180 | 5.0 | 11.0 | 0.6 |
| 5 | PPI 6-322 | 0.220 | 5.0 | 11.0 | 0.6 |
| 6 | PPI 6-327 | 0.270 | 5.0 | 11.0 | 0.6 |
| 7 | PPI 6-333 | 0.330 | 5.0 | 11.0 | 0.6 |
| 8 | PPI 6-339 | 0.390 | 5.0 | 11.0 | 0.6 |
| 9 | PPI 6-347 | 0.470 | 5.0 | 11.0 | 0.6 |
| 10 | PPI 6-356 | 0.560 | 5.0 | 11.0 | 0.6 |
| 11 | PPI 6-368 | 0.680 | 5.0 | 11.0 | 0.6 |
| 12 | PPI 6-382 | 0.820 | 5.0 | 11.0 | 0.6 |
| 13 | PPI 6-210 | 1.00 | 5.0 | 11.0 | 0.6 |
| 14 | PPI 6-212 | 1.20 | 5.0 | 11.0 | 0.6 |
| 15 | PPI 6-215 | 1.50 | 5.0 | 11.0 | 0.6 |
| 16 | PPI 6-218 | 1.80 | 5.0 | 11.0 | 0.6 |
| 17 | PPI 6-222 | 2.20 | 6.0 | 11.0 | 0.6 |
| 18 | PPI 6-227 | 2.70 | 6.0 | 11.0 | 0.6 |
| 19 | PPI 6-233 | 3.30 | 6.0 | 11.0 | 0.6 |
| 20 | PPI 6-239 | 3.90 | 6.0 | 11.0 | 0.6 |
| 21 | PPI 6-247 | 4.70 | 7.0 | 11.0 | 0.6 |
| 22 | PPI 6-256 | 5.60 | 7.0 | 11.0 | 0.6 |
| 23 | PPI 6-268 | 6.80 | 7.0 | 15.0 | 0.6 |
| 24 | PPI 6-282 | 8.20 | 7.0 | 15.0 | 0.6 |
| 25 | PPI 6-110 | 10.0 | 8.0 | 15.0 | 0.8 |
| 26 | PPI 6-112 | 12.0 | 8.0 | 15.0 | 0.8 |
| 27 | PPI 6-115 | 15.0 | 8.0 | 22.0 | 0.8 |
| 28 | PPI 6-118 | 18.0 | 8.0 | 22.0 | 0.8 |
| 29 | PPI 6-122 | 22.0 | 8.0 | 22.0 | 0.8 |
| 30 | PPR 6-127 | 27.0 | 8.5 | 22.0 | 0.8 |
| 31 | PPR 6-133 | 33.0 | 9.0 | 22.0 | 0.8 |
| 32 | PPR 6-139 | 39.0 | 10.0 | 22.0 | 0.8 |
| 33 | PPR 6-147 | 47.0 | 10.5 | 22.0 | 1.0 |
| 34 | PPR 6-156 | 56.0 | 11.5 | 22.0 | 1.0 |
| 35 | PPR 6-168 | 68.0 | 12.5 | 22.0 | 1.0 |
| 36 | PPR 6-182 | 82.0 | 12.0 | 27.0 | 1.0 |
| 37 | PPR 6-010 | 100.0 | 13.0 | 27.0 | 1.0 |

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Metallized Polypropylene Capacitors

Type PPI / PPR

PPI 160 VDC

| B4F4 Pos. | Type | Cn [nF] | Dimensions | | |
|--------------|------------|------------|------------|--------|--------------|
| | | | ø [mm] | L [mm] | ø leads [mm] |
| 1 | PPI 16-310 | 0.100 | 5.0 | 11.0 | 0.6 |
| 2 | PPI 16-312 | 0.120 | 5.0 | 11.0 | 0.6 |
| 3 | PPI 16-315 | 0.150 | 5.0 | 11.0 | 0.6 |
| 4 | PPI 16-318 | 0.180 | 5.0 | 11.0 | 0.6 |
| 5 | PPI 16-322 | 0.220 | 5.0 | 11.0 | 0.6 |
| 6 | PPI 16-327 | 0.270 | 5.0 | 11.0 | 0.6 |
| 7 | PPI 16-333 | 0.330 | 5.0 | 11.0 | 0.6 |
| 8 | PPI 16-339 | 0.390 | 5.0 | 11.0 | 0.6 |
| 9 | PPI 16-347 | 0.470 | 5.0 | 11.0 | 0.6 |
| 10 | PPI 16-356 | 0.560 | 5.0 | 11.0 | 0.6 |
| 11 | PPI 16-368 | 0.680 | 5.0 | 11.0 | 0.6 |
| 12 | PPI 16-382 | 0.820 | 5.0 | 11.0 | 0.6 |
| 13 | PPI 16-210 | 1.00 | 6.0 | 11.0 | 0.6 |
| 14 | PPI 16-212 | 1.20 | 6.0 | 11.0 | 0.6 |
| 15 | PPI 16-215 | 1.50 | 6.0 | 11.0 | 0.6 |
| 16 | PPI 16-218 | 1.80 | 5.0 | 11.0 | 0.6 |
| 17 | PPI 16-222 | 2.20 | 7.0 | 11.0 | 0.6 |
| 18 | PPI 16-227 | 2.70 | 7.0 | 11.0 | 0.6 |
| 19 | PPI 16-233 | 3.30 | 7.0 | 11.0 | 0.6 |
| 20 | PPI 16-239 | 3.90 | 7.0 | 15.0 | 0.6 |
| 21 | PPI 16-247 | 4.70 | 7.0 | 15.0 | 0.6 |
| 22 | PPI 16-256 | 5.60 | 8.0 | 15.0 | 0.8 |
| 23 | PPI 16-268 | 6.80 | 8.0 | 15.0 | 0.8 |
| 24 | PPI 16-282 | 8.20 | 8.0 | 22.0 | 0.8 |
| 25 | PPI 16-110 | 10.00 | 8.0 | 22.0 | 0.8 |
| 26 | PPI 16-112 | 12.00 | 8.0 | 22.0 | 0.8 |
| 27 | PPI 16-115 | 15.00 | 8.5 | 22.0 | 0.8 |
| 28 | PPI 16-118 | 18.00 | 9.0 | 22.0 | 0.8 |
| 29 | PPI 16-122 | 22.00 | 10.0 | 22.0 | 0.8 |
| 30 | PPR 16-127 | 27.00 | 11.0 | 22.0 | 1.0 |
| 31 | PPR 16-133 | 33.00 | 11.5 | 22.0 | 1.0 |
| 32 | PPR 16-139 | 39.00 | 12.0 | 22.0 | 1.0 |
| 33 | PPR 16-147 | 47.00 | 13.0 | 22.0 | 1.0 |
| 34 | PPR 16-156 | 56.00 | 13.0 | 27.0 | 1.0 |
| 35 | PPR 16-168 | 68.00 | 14.0 | 27.0 | 1.0 |
| 36 | PPR 16-182 | 82.00 | 15.0 | 27.0 | 1.0 |
| 37 | PPR 16-010 | 100.00 | 16.0 | 27.0 | 1.0 |

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Metallized Polypropylene Capacitors

Type PPI / PPR

PPI 250 VDC

| B4F4 | Type | Cn [nF] | Dimensions | | |
|------|------------|------------|------------|--------|--------|
| | | | Pos. | ø [mm] | L [mm] |
| 1 | PPI 25-310 | 0.100 | 5.0 | 11.0 | 0.6 |
| 2 | PPI 25-312 | 0.120 | 5.0 | 11.0 | 0.6 |
| 3 | PPI 25-315 | 0.150 | 5.0 | 11.0 | 0.6 |
| 4 | PPI 25-318 | 0.180 | 5.0 | 11.0 | 0.6 |
| 5 | PPI 25-322 | 0.220 | 5.0 | 11.0 | 0.6 |
| 6 | PPI 25-327 | 0.270 | 5.0 | 11.0 | 0.6 |
| 7 | PPI 25-333 | 0.330 | 5.0 | 11.0 | 0.6 |
| 8 | PPI 25-339 | 0.390 | 5.0 | 11.0 | 0.6 |
| 9 | PPI 25-347 | 0.470 | 5.0 | 11.0 | 0.6 |
| 10 | PPI 25-356 | 0.560 | 5.0 | 11.0 | 0.6 |
| 11 | PPI 25-368 | 0.680 | 6.0 | 11.0 | 0.6 |
| 12 | PPI 25-382 | 0.820 | 6.0 | 11.0 | 0.6 |
| 13 | PPI 25-210 | 1.00 | 6.0 | 11.0 | 0.6 |
| 14 | PPI 25-212 | 1.20 | 6.0 | 11.0 | 0.6 |
| 15 | PPI 25-215 | 1.50 | 7.0 | 11.0 | 0.6 |
| 16 | PPI 25-218 | 1.80 | 7.0 | 11.0 | 0.6 |
| 17 | PPI 25-222 | 2.20 | 7.0 | 15.0 | 0.6 |
| 18 | PPI 25-227 | 2.70 | 7.0 | 15.0 | 0.6 |
| 19 | PPI 25-233 | 3.30 | 7.0 | 15.0 | 0.6 |
| 20 | PPI 25-239 | 3.90 | 8.0 | 15.0 | 0.8 |
| 21 | PPI 25-247 | 4.70 | 8.0 | 15.0 | 0.8 |
| 22 | PPI 25-256 | 5.60 | 8.0 | 22.0 | 0.8 |
| 23 | PPI 25-268 | 6.80 | 8.0 | 22.0 | 0.8 |
| 24 | PPI 25-282 | 8.20 | 8.5 | 22.0 | 0.8 |
| 25 | PPI 25-110 | 10.00 | 8.5 | 22.0 | 0.8 |
| 26 | PPI 25-112 | 12.00 | 9.0 | 22.0 | 0.8 |
| 27 | PPI 25-115 | 15.00 | 10.0 | 22.0 | 0.8 |
| 28 | PPI 25-118 | 18.00 | 10.5 | 22.0 | 1.0 |
| 29 | PPI 25-122 | 22.00 | 11.5 | 22.0 | 1.0 |
| 30 | PPR 25-127 | 27.00 | 12.5 | 22.0 | 1.0 |
| 31 | PPR 25-133 | 33.00 | 11.5 | 27.0 | 1.0 |
| 32 | PPR 25-139 | 39.00 | 12.5 | 27.0 | 1.0 |
| 33 | PPR 25-147 | 47.00 | 13.5 | 27.0 | 1.0 |
| 34 | PPR 25-156 | 56.00 | 15.0 | 27.0 | 1.0 |
| 35 | PPR 25-168 | 68.00 | 16.0 | 27.0 | 1.0 |
| 36 | PPR 25-182 | 82.00 | 16.0 | 33.0 | 1.0 |
| 37 | PPR 25-010 | 100.00 | 17.0 | 33.0 | 1.0 |

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Metallized Polypropylene Capacitors

Type PPI / PPR

PPI 500 VDC

| B4F4 | Type | Cn [nF] | Dimensions | | |
|------|------------|------------|------------|--------|--------|
| | | | Pos. | ø [mm] | L [mm] |
| 1 | PPI 50-310 | 0.100 | 5.0 | 11.0 | 0.6 |
| 2 | PPI 50-312 | 0.120 | 5.0 | 11.0 | 0.6 |
| 3 | PPI 50-315 | 0.150 | 5.0 | 11.0 | 0.6 |
| 4 | PPI 50-318 | 0.180 | 5.0 | 11.0 | 0.6 |
| 5 | PPI 50-322 | 0.220 | 5.0 | 11.0 | 0.6 |
| 6 | PPI 50-327 | 0.270 | 5.0 | 11.0 | 0.6 |
| 7 | PPI 50-333 | 0.330 | 5.0 | 11.0 | 0.6 |
| 8 | PPI 50-339 | 0.390 | 5.0 | 11.0 | 0.6 |
| 9 | PPI 50-347 | 0.470 | 5.0 | 11.0 | 0.6 |
| 10 | PPI 50-356 | 0.560 | 6.0 | 11.0 | 0.6 |
| 11 | PPI 50-368 | 0.680 | 6.0 | 11.0 | 0.6 |
| 12 | PPI 50-382 | 0.820 | 6.0 | 11.0 | 0.6 |
| 13 | PPI 50-210 | 1.00 | 6.0 | 11.0 | 0.6 |
| 14 | PPI 50-212 | 1.20 | 7.0 | 11.0 | 0.6 |
| 15 | PPI 50-215 | 1.50 | 7.0 | 11.0 | 0.6 |
| 16 | PPI 50-218 | 1.80 | 7.0 | 15.0 | 0.6 |
| 17 | PPI 50-222 | 2.20 | 7.0 | 15.0 | 0.6 |
| 18 | PPI 50-227 | 2.70 | 8.0 | 15.0 | 0.8 |
| 19 | PPI 50-233 | 3.30 | 8.0 | 15.0 | 0.8 |
| 20 | PPI 50-239 | 3.90 | 8.0 | 22.0 | 0.8 |
| 21 | PPI 50-247 | 4.70 | 8.0 | 22.0 | 0.8 |
| 22 | PPI 50-256 | 5.60 | 8.0 | 22.0 | 0.8 |
| 23 | PPI 50-268 | 6.80 | 8.5 | 22.0 | 0.8 |
| 24 | PPI 50-282 | 8.20 | 9.0 | 22.0 | 0.8 |
| 25 | PPI 50-110 | 10.00 | 9.5 | 22.0 | 0.8 |
| 26 | PPI 50-112 | 12.00 | 10.0 | 22.0 | 0.8 |
| 27 | PPI 50-115 | 15.00 | 11.5 | 22.0 | 1.0 |
| 28 | PPI 50-118 | 18.00 | 12.0 | 22.0 | 1.0 |
| 29 | PPI 50-122 | 22.00 | 13.0 | 22.0 | 1.0 |
| 30 | PPR 50-127 | 27.00 | 12.5 | 27.0 | 1.0 |
| 31 | PPR 50-133 | 33.00 | 13.5 | 27.0 | 1.0 |
| 32 | PPR 50-139 | 39.00 | 14.5 | 27.0 | 1.0 |
| 33 | PPR 50-147 | 47.00 | 16.0 | 27.0 | 1.0 |
| 34 | PPR 50-156 | 56.00 | 15.0 | 33.0 | 1.0 |
| 35 | PPR 50-168 | 68.00 | 16.5 | 33.0 | 1.0 |
| 36 | PPR 50-182 | 82.00 | 18.0 | 33.0 | 1.0 |
| 37 | PPR 50-010 | 100.00 | 20.0 | 33.0 | 1.0 |

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