

DCB

Radial leaded Metallized polypropylene film capacitors



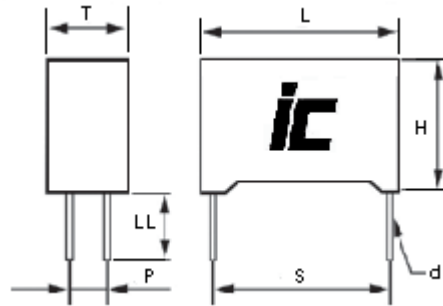
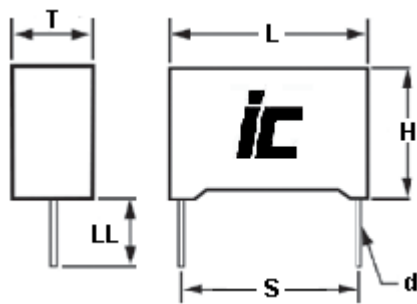
Features

- Small size
- General Purpose
- Small size
- High Voltage

Applications

- Inverters
- AC/DC motor controls
- Solar inverters
- DC Link
- Welding Equipment

| | | | | | |
|---------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------|------------|------------------------------------------------------------------|--|
| Operating Temperature Range | | -40°C to +85°C | | | |
| Capacitance Tolerance | | ±10% at 1 kHz, 20°C ±5% optional | | | |
| Surge voltage | WVDC | 700 | 900 | 1100 | |
| | SVDC | 875 | 1125 | 1375 | |
| Repetitive surge voltage | | 1.15*WVDC (30 minutes MAXIMUM per day) | | | |
| Dissipation Factor | | .2% Max at 1 kHz, 25°C, C≤20uF .3% Max at 1 kHz, 25°C, C>20uF | | | |
| Insulation Resistance @20°C (<70% RH)for 1 minute at 100VDC applied | | 3000 Megohmxmicrofarad | | | |
| Self Inductance | | <1 nano-Henry per mm of lead spacing and lead length | | | |
| Dielectric Strength | | Terminal to Terminal | | Terminal to Case | |
| | | 150% of VDC applied between terminals for 10 Seconds and 25°C | | 3kVAC applied between terminals and case for 60 Seconds and 25°C | |
| Life expectancy | | >100,000 for WVDC at 70°C | | | |
| Failure quota | | 300/1x10 ⁹ component hours | | | |
| Construction | | Metallized polypropylene film | | | |
| Coating | | Flame retardant plastic box with epoxy end fill (UL94V-0) | | | |
| Lead terminations | | Lead free tinned copper leads (RoHS compliant) | | | |



Lead lengths (LL)

2 leaded capacitors: 5mm+/-1.0 mm
25 mm +/-5 mm (Optional)

4 leaded capacitors: 5.5 mm +/-1.5 mm



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Radial Leaded
Metallized
polypropylene
capacitors

Physical Dimensions

| Capacitance (μ F) | WVDC | IC PART number | dv/dt V/ μ S | Maximum Ripple current A 10kHz, +25°C | Typical ESR m Ω 10kHz, +25°C | Dimensions LxHxT (mm) | Lead Spacing S (mm) | Lead Diameter d (mm) | 4 Lead Spacing P (mm) | # of leads |
|---------------------------|------|-------------------|---------------------|------------------------------------------------|-------------------------------------------------|-----------------------------|------------------------------|-------------------------------|--------------------------------|---------------|
| 7.5 | 1100 | 755DCB112K2J | 20 | 7 | 11.6 | 42.5x33.5x22 | 37.5 | 1.2 | - | 2 |
| 10 | 900 | 106DCB900K2J | 16 | 7.5 | 10.3 | 42.5x33.5x22 | 37.5 | 1.2 | - | 2 |
| 10 | 1100 | 106DCB112K2J | 20 | 9 | 9.6 | 42.5x37x28 | 37.5 | 1.2 | - | 2 |
| 10 | 1100 | 106DCB112K4J | 20 | 10.5 | 8.7 | 42.5x37x28 | 37.5 | 1.2 | 10.2 | 4 |
| 12 | 900 | 126DCB900K2J | 16 | 8.5 | 9.3 | 41.5x40x20 | 37.5 | 1.2 | - | 2 |
| 12 | 900 | 126DCB900K4J | 16 | 10 | 8.4 | 41.5x40x20 | 37.5 | 1.2 | 10.2 | 4 |
| 12.5 | 700 | 126DCB700K2J | 13 | 7.5 | 10.5 | 42.5x30x22 | 37.5 | 1.2 | - | 2 |
| 12.5 | 1100 | 126DCB112K2J | 20 | 10.5 | 8.3 | 42.5x45x30 | 37.5 | 1.2 | - | 2 |
| 12.5 | 1100 | 126DCB112K4J | 20 | 12.5 | 7.4 | 42.5x45x30 | 37.5 | 1.2 | 20.3 | 4 |
| 15 | 700 | 156DCB700K2J | 13 | 8 | 9.3 | 42.5x33.5x22 | 37.5 | 1.2 | - | 2 |
| 15 | 700 | 156DCB700K4J | 13 | 9.5 | 8.4 | 42.5x33.5x22 | 37.5 | 1.2 | 10.2 | 4 |
| 15 | 900 | 156DCB900K2J | 16 | 9.5 | 8.4 | 42.5x37x28 | 37.5 | 1.2 | - | 2 |
| 15 | 900 | 156DCB900K4J | 16 | 11.5 | 7.5 | 42.5x37x28 | 37.5 | 1.2 | 10.2 | 4 |
| 16 | 900 | 166DCB900K2J | 16 | 10 | 8 | 41.5x44x24 | 37.5 | 1.2 | - | 2 |
| 16 | 900 | 166DCB900K4J | 16 | 12 | 7.1 | 41.5x44x24 | 37.5 | 1.2 | 10.2 | 4 |
| 20 | 700 | 206DCB700K2J | 13 | 10 | 7.8 | 42.5x45x30 | 37.5 | 1.2 | - | 2 |
| 20 | 700 | 206DCB700K4J | 13 | 12 | 6.9 | 42.5x37x28 | 37.5 | 1.2 | 10.2 | 4 |
| 20 | 900 | 206DCB900K2J | 16 | 11.5 | 7.1 | 42.5x45x30 | 37.5 | 1.2 | - | 2 |
| 20 | 900 | 206DCB900K4J | 16 | 14 | 6.2 | 42.5x45x30 | 37.5 | 1.2 | 20.3 | 4 |
| 20 | 1100 | 206DCB112K2R | 13 | 12 | 7.9 | 57.5x45x30 | 52.5 | 1.2 | - | 2 |
| 20 | 1100 | 206DCB112K4R | 13 | 14 | 7 | 57.5x45x30 | 52.5 | 1.2 | 20.3 | 4 |
| 22 | 700 | 226DCB700K2J | 13 | 10 | 7.4 | 42.5x37x28 | 37.5 | 1.2 | - | 2 |
| 22 | 700 | 226DCB700K4J | 13 | 12 | 6.5 | 42.5x37x28 | 37.5 | 1.2 | 10.2 | 4 |
| 25 | 1100 | 256DCB112K2R | 13 | 14 | 7.1 | 57.5x50x35 | 52.5 | 1.2 | - | 2 |
| 25 | 1100 | 256DCB112K4R | 13 | 16 | 6.2 | 57.5x50x35 | 52.5 | 1.2 | 20.3 | 4 |
| 30 | 700 | 306DCB700K2J | 13 | 12.5 | 6 | 42.5x45x30 | 37.5 | 1.2 | - | 2 |
| 30 | 700 | 306DCB700K4J | 13 | 15 | 5.1 | 42.5x45x30 | 37.5 | 1.2 | 20.3 | 4 |
| 30 | 900 | 306DCB900K2R | 11 | 12.5 | 6.9 | 57.5x45x30 | 52.5 | 1.2 | - | 2 |
| 30 | 900 | 306DCB900K4R | 11 | 15.5 | 6 | 57.5x45x30 | 52.5 | 1.2 | 20.3 | 4 |
| 40 | 900 | 406DCB900K2R | 11 | 14 | 6 | 57.5x50x35 | 52.5 | 1.2 | - | 2 |
| 40 | 900 | 406DCB900K4R | 11 | 19 | 5.1 | 57.5x50x35 | 52.5 | 1.2 | 20.3 | 4 |
| 45 | 700 | 456DCB700K2R | 10 | 13.5 | 6.3 | 57.5x45x30 | 52.5 | 1.2 | - | 2 |
| 45 | 700 | 456DCB700K4R | 10 | 16.5 | 5.4 | 57.5x45x30 | 52.5 | 1.2 | 20.3 | 4 |
| 55 | 700 | 556DCB700K2R | 10 | 14 | 5.5 | 57.5x50x35 | 52.5 | 1.2 | - | 2 |
| 55 | 700 | 556DCB700K4R | 10 | 19 | 4.6 | 57.5x50x35 | 52.5 | 1.2 | 20.3 | 4 |

