

## R75PD1680CK40K

Aliases (75PD1680CK40K)

R75, Film, Metallized Polypropylene, Automotive Grade, 6,800 pF, 10%, 630 VDC, 85°C, 7.5 mm



Click [here](#) for the 3D model.

### General Information

|                |  |
|----------------|--|
| Series         | R75  |
| Dielectric     | Metallized Polypropylene                         |
| Style          | Radial   |
| Features       | Automotive Grade, Pulse                          |
| RoHS           | Yes  |
| Termination    | Tinned Wire                                      |
| Lead           | Wire Leads                                       |
| Qualifications | AEC-Q200   |
| Miscellaneous  | Above 85C DC And AC Voltage Derating Is 1.25%/C. |

### Dimensions

|    |                  |
|----|------------------|
| L  | 10mm +0.2/-0.5mm |
| H  | 9mm +0.1/-0.5mm  |
| T  | 4mm +0.1/-0.5mm  |
| S  | 7.5mm +/-0.4mm   |
| H0 | 18.5mm +/-0.5mm  |
| F  | 0.5mm +/-0.05mm  |

### Packaging Specifications

|                    |      |
|--------------------|------|
| Packaging          | T&R  |
| Packaging Quantity | 1500 |

### Specifications

|                       |  |
|-----------------------|--|
| Capacitance           | 6,800 pF                               |
| Tolerance             | 10%                                    |
| Voltage DC            | 630 VDC                                |
| Voltage AC            | 250 VAC                                |
| Temperature Range     | -55/+105°C                             |
| Rated Temperature     | 85°C                                   |
| Dissipation Factor    | 0.04% 1kHz, 0.06% 10kHz, 0.25% 100kHz  |
| Insulation Resistance | 100 GOhms                              |
| Max dV/dt             | 2,400 V/us                             |
| ESR                   | 117 mOhms (100kHz)                     |
| Ripple Current        | 1.07 Amps (100kHz 85C), 16 Amps (Peak) |
| Inductance            | 8 nH                                   |

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