

## R82IC1680CK50J

Aliases (82IC1680CK50J)

R82, Film, Metallized Polyester Stacked, Automotive Grade, 6,800 pF, 5%, 250 VDC, 85°C, 5 mm



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

### General Information

|                          |  |
|--------------------------|--|
| Series                   | R82  |
| Dielectric               | Metallized Polyester Stacked                     |
| Style                    | Radial   |
| Features                 | Automotive Grade, DC Multipurpose Applications   |
| RoHS                     | Yes  |
| Termination              | Tinned Wire                                      |
| Lead                     | Wire Leads                                       |
| Qualifications           | AEC-Q200   |
| AEC-Q200                 | Yes  |
| Typical Component Weight | 0.23 g   |
| Miscellaneous            | Above 85C DC And AC Voltage Derating Is 1.25%/C. |

### Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Capacitance           | 6,800 pF                           |
| Tolerance             | 5%                                 |
| Voltage DC            | 250 VDC                            |
| Voltage AC            | 160 VAC                            |
| Temperature Range     | -55/+105°C                         |
| Rated Temperature     | 85°C                               |
| Dissipation Factor    | 0.8% 1kHz, 1.2% 10kHz, 2.5% 100kHz |
| Insulation Resistance | 30 GOhms                           |
| Max dV/dt             | 250 V/us                           |
| Inductance            | 7 nH                               |

### Dimensions

|                |                   |
|----------------|-------------------|
| L              | 7.2mm +0.2/-0.5mm |
| H              | 6.5mm +0.1/-0.5mm |
| T              | 2.5mm +0.1/-0.5mm |
| S              | 5mm +/-0.4mm      |
| H <sub>0</sub> | 18.5mm +/-0.5mm   |
| F              | 0.5mm +/-0.05mm   |

### Packaging Specifications

|                    |      |
|--------------------|------|
| Packaging          | T&R  |
| Packaging Quantity | 2500 |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.