

## R82EC1680AA50J

Aliases (82EC1680AA50J)

R82, Film, Metallized Polyester Stacked, Automotive Grade, 6,800 pF, 5%, 100 VDC, 85°C, 5 mm



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### General Information

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

### 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      |
| LL | 4mm +1.5mm        |
| F  | 0.5mm +/-0.05mm   |

### Packaging Specifications

|                    |      |
|--------------------|------|
| Packaging          | Bulk |
| Packaging Quantity | 3000 |

### Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Capacitance           | 6,800 pF                           |
| Tolerance             | 5%                                 |
| Voltage DC            | 100 VDC                            |
| Voltage AC            | 63 VAC                             |
| Temperature Range     | -55/+105°C                         |
| Rated Temperature     | 85°C                               |
| Dissipation Factor    | 0.8% 1kHz, 1.2% 10kHz, 2.5% 100kHz |
| Insulation Resistance | 15 GOhms                           |
| Max dV/dt             | 200 V/us                           |
| Inductance            | 7 nH                               |

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