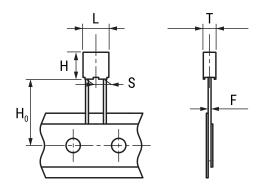
## KEMET Part Number: R82MC1680DQ50K

(82MC1680DQ50K)



R82, Film, Metallized Polyester Stacked, Automotive Grade, 6800 pF, 10%, 400 VDC, 85°C, Lead Spacing = 5mm



| Dimensions |                 |  |
|------------|-----------------|--|
| L          | 7.2mm +0.2mm    |  |
| Н          | 7.5mm +0.1mm    |  |
| Т          | 3.5mm +0.1mm    |  |
| S          | 5mm +0.6/-0.1mm |  |
| H0         | 18.5mm +/-0.5mm |  |
| F          | 0.5mm +/-0.05mm |  |

| Packaging Specifications |                         |  |
|--------------------------|-------------------------|--|
| Packaging:               | Ammo, 360x340x59mm, Box |  |
| Packaging Quantity:      | 2500                    |  |

| General Information |   |  |
|---------------------|---|--|
| Series:             | R82   |  |
| Dielectric:         | Metallized Polyester Stacked                      |  |
| Style:              | Radial  |  |
| Features:           | Automotive Grade, DC<br>Multipurpose Applications |  |
| RoHS:               | Yes   |  |
| Lead:               | Wire Leads  |  |
| Qualifications:     | AEC-Q200  |  |
| AEC-Q200:           | Yes   |  |
| Component Weight:   | 0.38 g  |  |
| Miscellaneous:      | Above 85C DC And AC Voltage Derating Is 1.25%/C.  |  |

| Specifications         |                                       |  |
|------------------------|---------------------------------------|--|
| Capacitance:           | 6800 pF                               |  |
| Capacitance Tolerance: | 10%                                   |  |
| Voltage AC:            | 200 VAC                               |  |
| Voltage DC:            | 400 VDC                               |  |
| Temperature Range:     | -55/+105°C                            |  |
| Rated Temperature:     | 85°C                                  |  |
| Dissipation Factor:    | 0.8% 1kHz, 1.2% 10kHz, 2.5%<br>100kHz |  |
| Insulation Resistance: | 30 GOhms                              |  |
| Max dV/dt:             | 400 V/us                              |  |
| Inductance:            | 7 nH                                  |  |

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