

**KEMET Part Number: R82EC3100DQ70J**  
(82EC3100DQ70J)

**KEMET**  
a YAGEO company

R82, Film, Metallized Polyester Stacked, Automotive Grade, 0.1 uF, 5%, 100 VDC, 85°C, Lead Spacing = 5mm



#### Dimensions

|           |                 |
|-----------|-----------------|
| <b>L</b>  | 7.2mm +0.2mm    |
| <b>H</b>  | 6.5mm +0.1mm    |
| <b>T</b>  | 2.5mm +0.1mm    |
| <b>S</b>  | 5mm +0.6/-0.1mm |
| <b>H0</b> | 18.5mm +/-0.5mm |
| <b>F</b>  | 0.5mm +/-0.05mm |

#### Packaging Specifications

|                            |                         |
|----------------------------|-------------------------|
| <b>Packaging:</b>          | Ammo, 360x340x59mm, Box |
| <b>Packaging Quantity:</b> | 3500                    |

#### General Information

|                          |  |
|--------------------------|--|
| <b>Series:</b>           | R82  |
| <b>Dielectric:</b>       | Metallized Polyester Stacked                     |
| <b>Style:</b>            | Radial   |
| <b>Features:</b>         | Automotive Grade, DC Multipurpose Applications   |
| <b>RoHS:</b>             | Yes  |
| <b>Lead:</b>             | Wire Leads                                       |
| <b>Qualifications:</b>   | AEC-Q200   |
| <b>AEC-Q200:</b>         | Yes  |
| <b>Component Weight:</b> | 0.214 g  |
| <b>Miscellaneous:</b>    | Above 85C DC And AC Voltage Derating Is 1.25%/C. |

#### Specifications

|                               |                                    |
|-------------------------------|------------------------------------|
| <b>Capacitance:</b>           | 0.1 uF                             |
| <b>Capacitance Tolerance:</b> | 5%                                 |
| <b>Voltage AC:</b>            | 63 VAC                             |
| <b>Voltage DC:</b>            | 100 VDC                            |
| <b>Temperature Range:</b>     | -55/+105°C                         |
| <b>Rated Temperature:</b>     | 85°C                               |
| <b>Dissipation Factor:</b>    | 0.8% 1kHz, 1.2% 10kHz, 2.5% 100kHz |
| <b>Insulation Resistance:</b> | 15 GOhms                           |
| <b>Max dV/dt:</b>             | 200 V/us                           |
| <b>Inductance:</b>            | 7 nH                               |

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