

**KEMET Part Number: R82EC1680DQ50J**  
(82EC1680DQ50J)

**KEMET**  
a YAGEO company

R82, Film, Metallized Polyester Stacked, Automotive Grade, 6800 pF, 5%, 100 VDC, 85°C, Lead Spacing = 5mm



#### Dimensions

Dimension	Value
L	7.2mm +0.2mm
H	6.5mm +0.1mm
T	2.5mm +0.1mm
S	5mm +0.6/-0.1mm
H0	18.5mm +/-0.5mm
F	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>	0.331 g
<b>Miscellaneous:</b>	Above 85C DC And AC Voltage Derating Is 1.25%/C.

#### Specifications

<b>Capacitance:</b>	6800 pF
<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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