Radial Leaded High Temperature Automotive



150°C Rated Radial Leaded TransGuard

GENERAL DESCRIPTION

AVX High Temperature Multi-Layer Varistors are designed for underhood applications. Products have been tested, qualified, and specified to 150°C. The Radial Leaded TransGuard is built for durability in harsh environments. The MLV advantage is EMI/RFI attenuation in the off state. This allows designers to combine the circuit protection and EMI/RFI attenuation function into a single highly reliable device.



FEATURES

- Rated at 150°C
- AEC Q200 qualified
- ESD rated to 25kV (HBM ESD Level 6)
- EMI/RFI attenuation in off state
- Excellent current and energy handling

APPLICATIONS

- Under hood
- Down Hole Drilling
- Any high temperature application

HOW TO ORDER

<u>VR15</u>	<u>AT</u>	<u>18</u>	<u>A</u>	<u>650</u>	<u>R</u>	<u>TR2</u>
AVX Style	Series	Voltage	Energy	Clamping	Leads	Package
	AT = 150°C	18=18V	A=0.1J	Voltage	R=RoHS Complaint	TR2=T&R
	Automotive			650 = 67V		Standard 2

PERFORMANCE CHARACTERISTICS

AVX Part No.	V _w (DC)	V _w (AC)	V _B	V _c	E _T	I _P	IL	Jump Start	Сар
VR15AT18A650R	18	13	41 ± 10%	67	0.1	30	10	29	90

$V_W(DC)$	DC Working Voltage [V]	$\mathbf{I}_{\mathbf{L}}$	Maximum leakage current at the working voltage $[\mu A]$
$V_W(AC)$	AC Working Voltage [V]	$\mathbf{E}_{\mathbf{T}}$	Transient Energy Rating [J, 10x1000μS]
V_B	Breakdown Votage [V @ 1mA _{DC}]	$\mathbf{I_{P}}$	Peak Current Rating [A, 8x20µS]
V_B	Clamping Votage [V @ I _{VC}]	Cap	Capacitance [pF] @ 1KHz specified and 0.5V _{RMS}
		Jump	Max V
		Start	

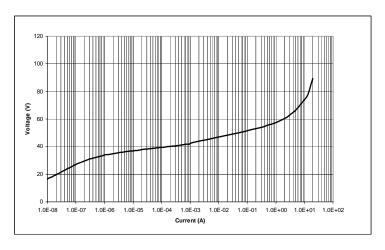
Radial Leaded High Temperature Automotive



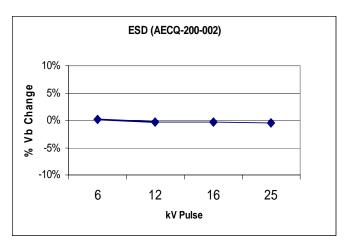
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TYPICAL PERFORMANCE CURVES

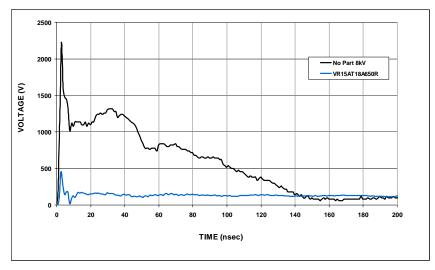
VOLTAGE/CURRENT CHARACTERISTICS



AEC-Q200-002 ESD CHARACTERISTICS



ESD WAVE ABSORPTION CHARACTERISTICS



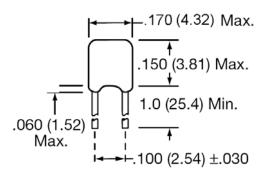
8 kV ESD Vc (150pF/330ohm IEC Network)

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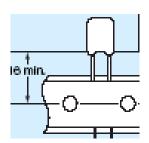
PHYSICAL DIMENSIONS



Size	VR15				
Width	4.32 mm Max				
· · · · · · · · · · · · · · · · · · ·	(0.17 inch)				
Height	3.81 mm				
neight	(0.15 inch)				
Thickness	2.54 mm				
Tilless	(0.10 inch)				
Lead	2.54 mm				
Spacing	(0.10 inch)				
Lead	0.508 mm				
Diameter	(0.02 inch)				

TAPE & REEL PACKAGING OPTIONS

TR1 – Tape & Reel Standard 1



TR2 – Tape & Reel Standard 2

