Radial Leaded High Temp. Automotive TransGuard®







GENERAL DESCRIPTION

KYOCERA 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.

GENERAL CHARACTERISTICS

- **Operating Temperatures:** -55°C to +150°C
- Working Voltage: 14-48Vdc

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
- DC Motors
- Relays
- Inductive Loads
- High Temperature/ Harsh environment and more

HOW TO ORDER







Energy A = 0.1JD = 0.4JS = 2.0J48 = 48V



151 = 150V







ELECTRICAL CHARACTERISTICS

Part Number	V _{wpc}	V _{wac}	V _B	V _c	I _{vc}	ال	E _T	E _{LD}	I _p	Сар	Freq	V _{JUMP}	P _{DISS}
VR15AT14A580	14.0	10.0	34.5±10%	60	1	10	0.1	0.15	30	120	K	27.5	0.002
VR15AT18A650	18.0	13.0	41.0±10%	67	1	10	0.1	0.15	30	90	М	29	0.002
VR20AT26D101	26.0	18.0	62.0±10%	100	1	10	0.4	1.5	100	225	K	48	0.008
VR20AT48S151	48.0	34.0	100.0±10%	150	1	10	2.0	3.5	250	275	К	48	0.040

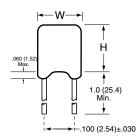


DC Working Voltage [V] AC Working Voltage [V] Typical Breakdown Votage [V @ 1mAnc] Clamping Voltage [V @ I_{IV}] Test Current for V Maximum leakage current at the working voltage [µA]

E'r I_P Cap V_{Jump} P_{DISS}

Transient Energy Rating [J, 10x1000µS] Load Dump Energy (x10) [J] Peak Current Rating [A, 8x20µS] Typical capacitance [pF] @ frequency specified and $0.5V_{RMS}$ Jump Start (V) Power Dissipation (W)

PHYSICAL DIMENSIONS

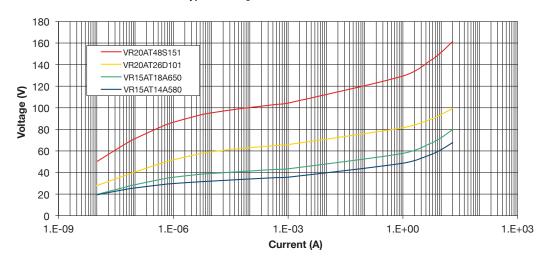


					mm (inches)
Style	Width (W)	Height (H)	Thickness (T)	Lead Spacing	Lead Diameter
VR15	4.32 Max.	3.81 Max.	2.54 Max.	2.54	0.508
	(0.170)	(0.150)	(0.100)	(0.100)	(0.020)
VR20	5.59 Max	5.08 Max	3.175 Max	2.54	0.508)
	(0.220)	(0.200)	(0.125)	(0.100)	(0.020



TYPICAL PERFORMANCE CURVES

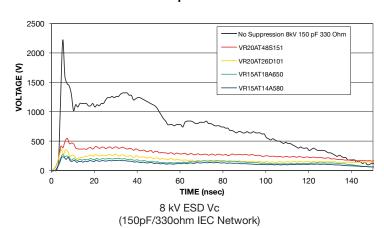
Typical Voltage Current Characteristics



AEC-Q200-002 ESD Characteristics

10% % Vb Change 5% 0% -5% -10% 6 12 16 25 kV Pulse

ESD Wave Absorption Characteristics



TAPE & REEL PACKAGING OPTIONS

