

Ultra High-Precision COTS Bulk Metal® Z-Foil Technology Tubular Axial Lead Resistors with TCR of ±0.05 ppm/°C, Tolerance to ±0.01% and Load-Life Stability of ±0.005%

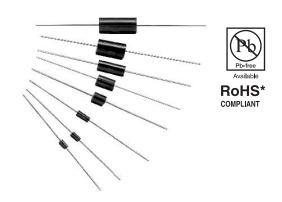
FEATURES

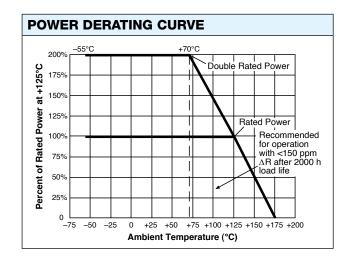
- Temperature coefficient of resistance (TCR): ±0.2 ppm/°C nominal (-55°C to +125°C, +25°C Ref.) ±0.05 ppm/°C ty nominal (0°C to +60°C)
- Resistance range: 5 Ω to 300 k Ω
- VFR resistors are not restricted to standard values; specific "as required" (e.g., 1K2345 vs. 1K)
- Tolerance: to ±0.01%
- Load-life stability: ±0.005% (50 ppm) at 70°C, 2000 h at rated power
- Electrostatic discharge (ESD): up to 25 000 V
- Power rating: 0.2 W to 1.0 W at 70°C
- Terminal finish: lead (Pb)-free, tin/lead

MAXIMUM TCR PPM/°C AND MAXIMUM SPREAD(1)					
Values	-55°C to +125°C, +25°C Ref.				
5R to <15R	±0.2 ±4.8				
15R to <25R	±0.2 ±3.8				
25R to <50R	±0.2 ±2.8				
50R to <100R	±0.2 ±2.3				
>100R	±0.2 ±1.8				

Note

(1) For non-standard requests, please contact application engineering

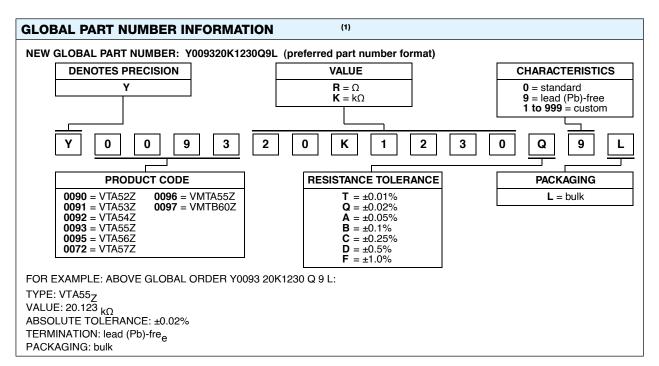




MODEL SELECTION							
Model	MIL Style	Power et :105°C		Maximum Working Voltage	Resistance Range (Ω)	Tightest Tolerance	
VTA57Z	RBR57	at +70°C 0.25 W	at +125°C 0.125 W	160 V	5 to 24R9 25 to 100k	±0.1% ±0.01%	
VTA56Z	RBR56	0.25 W	0.125 W	160 V	5 to 24R9 25 to 100k	±0.1% ±0.01%	
VTA55Z	RBR55	0.3 W	0.15 W	175 V	5 to 24R9 25 to 100k	±0.1% ±0.01%	
VTA54Z	RBR54	0.5 W	0.25 W	300 V	5 to 24R9 25 to 200K	±0.1% ±0.01%	
VTA53Z	RBR53	0.66 W	0.33 W	350 V	5 to 24R9 25 to 200K	±0.1% ±0.01%	
VTA52Z	RBR53	1.0 W	0.5 W	350 V	5 to 24R9 25 to 300K	±0.1% ±0.01%	
VMTA55Z	RNC55	0.2 W	0.1 W	75 V	5 to 49R9 50 to 30K	±0.1% ±0.01%	
VMTB60Z	RNC60	0.25 W	0.125 W	125 V	5 to 49R9 50 to 60K	±0.1% ±0.01%	

VTA52Z—VTA57Z, VMTA55Z, VMTB60Z (Z-Foil)





Note

(1) For non-standard requests, please contact Application Engineering

