

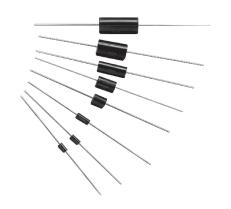
Bulk Metal® Foil Technology Tubular Axial-Lead Resistors

Meet or Exceed MIL-R-39005 Requirements

FEATURES

- Temperature coefficient of resistance (TCR): ±8 ppm/°C (-55°C to +125°C, +25°C Ref.) ±4 ppm/°C (0°C to +60°C)
- Tolerance: to ±0.01%
- Load life stability: ±0.05% at 25°C, 2000 hours at rated power ±0.0025% at 25°C, 2000 hours at low power
- Electrostatic discharge (ESD) up to 25 000 Volts
- Resistance range: 5 Ω to 500 k Ω
- Power rating: 0.2 W to 1.0 W at 70°C
- Any value available within resistance range (e.g., 1K2345)

TCR (for values under 50R)								
VALUES	0°C to +60°C	–55 to +125°C, +25°C Ref.						
25R - 50R	±5 ppm/°C	±8 ppm/°C						
15R - 24R999	±6 ppm/°C	±10 ppm/°C						
5R - 14R999	±8 ppm/°C	±12 ppm/°C						
1R - 4R999	±15 ppm/°C	±20 ppm/°C						





Model Selection										
VFR MODEL	MIL STYLE	POWER		MAXIMUM	RESISTANCE	TIGHTEST	TCR RANGE ⁽²⁾			
		at +70°C	at +125°C	WORKING VOLTAGE	RANGE ⁽¹⁾ (Ω)	TOLERANCE	TON NANGE			
VTA56	RBR56	0.25 W	0.125 W	300 V	5 to 24R9 25 to 150K	±0.1% ±0.01%	V4 V3, V2			
VTA55	RBR55	0.3 W	0.15 W	300 V	5 to 24R9 25 to 150K	±0.1% ±0.01%	V4V3, V2			
VTA54	RBR54	0.5 W	0.25 W	300 V	5 to 24R9 25 to 300K	±0.1% ±0.01%	V4V3, V2			
VTA53	RBR53	0.66 W	0.33 W	300 V	5 to 24R9 25 to 300K	±0.1% ±0.01%	V4 V3, V2			
VTA52	RBR52	1.0 W	0.5 W	300 V	5 to 24R9 25 to 500K	±0.1% ±0.01%	V4V3, V2			
VMTA55	RNC55	0.2 W	0.1 W	200 V	5 to 49R9 50 to 30K	±0.1% ±0.01%	V4V3, V2			
VMTB60	RNC60	0.25 W	0.125 W	250 V	5 to 49R9 50 to 60K	±0.1% ±0.01%	V4 V3, V2			

Notes

(1) For higher/lower resistance values, consult the Application Engineering Department

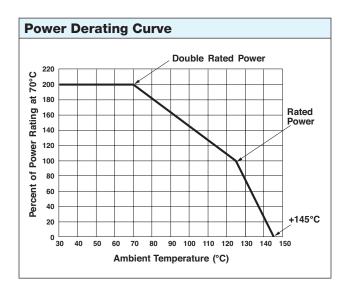
TCR options for values >50 Ω

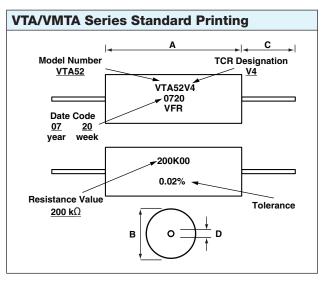
 $V4 = \pm 4 \text{ ppm/°C (0 to +60°C)}; \pm 8 \text{ ppm°C (-55°C to +125°C, +25°C Ref.)}$

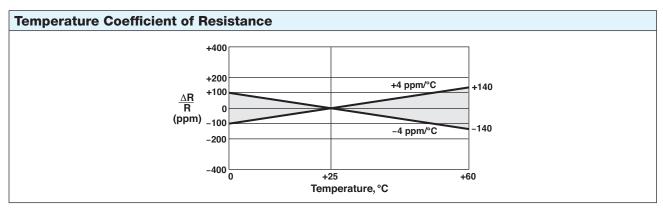
 $V3 = \pm 3 \text{ ppm/}^{\circ}\text{C} \text{ (0 to +60}^{\circ}\text{C); } \pm 5 \text{ ppm/}^{\circ}\text{C} \text{ (-55}^{\circ}\text{C to +125}^{\circ}\text{C, +25}^{\circ}\text{C Ref.)}$

 $V2 = \pm 2 \text{ ppm/°C (0 to +60°C)}; \pm 5 \text{ ppm/°C (-55°C to +125°C, +25°C Ref.)}$



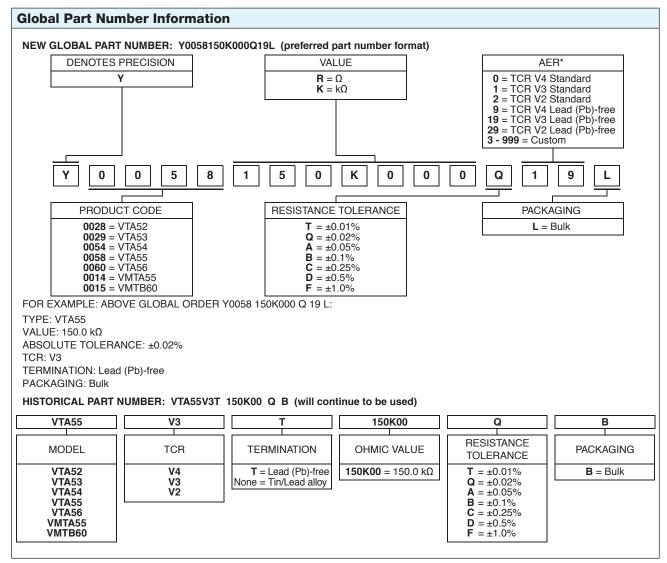






VTA/VMTX Dimensions													
	MIL SIZE	BODY								LEAD			
VFR MODEL		LENGTH (A)				DIAMETER (B)				LENGTH (DIAMETER (D)		
		INCH		mm		INCH		mm		INCH	mm	INCH	mm
VTA56	RBR56	0.356	+0.005 -0.010	9.04	+0.13 -0.25	0.260	+0.005 -0.015	6.60	+0.13 -0.38	1.5 Minimum	38.10	0.032	0.81
VTA55	RBR55	0.500±0.020		12.70±0.51		0.260	+0.005 -0.010	6.60	+0.13 -0.25	1.5 Minimum	38.10	0.032	0.81
VTA54	RBR54	0.750	+0.020 -0.032	19.05	+0.51 -0.81	0.260	+0.005 -0.010	6.60	+0.13 -0.25	1.5 Minimum	38.10	0.032	0.81
VTA53	RBR53	0.750±0.020		19.05±0.51		0.375	±0.015	9.53	±0.38	1.5 Minimum	38.10	0.032	0.81
VTA52	RBR52	1.000	+0.020 -0.032	25.40	+0.51 -0.81	0.375	±0.015	9.53	±0.38	1.35 Minimum	34.29	0.032	0.81
VMTA55	RNC55	0.270±0.005 6.86±0.13		0.120	+0.005 -0.010	3.05	+0.13 -0.25	1.5 Minimum	38.10	0.025	0.64		
VMTB60	RNC60	0.375±0.005		9.53±0.13		0.160	±0.005	4.06	±0.13	1.5 Minimum	38.10	0.025	0.64





Note

^{*} For non-standard requests, please contact application engineering.