



Decade Divider, Single In-Line, Thin Film Divider, Through Hole Resistor Network



Precision resistor networks comprised of series-connected decade values are provided in single-in-line style with edge-mounted leads on 100 mil centers. Integrated thin film construction, laser-trimmed to extremely tight tolerances, insures exceptionally close tracking over temperature and throughout operating life, in either voltage division or current monitoring mode. Voltage coefficient and noise are extremely low. Designers gain several advantages over the use of discrete resistor sets, including smaller size, better overall tracking, greater reliability, and lower cost.

FEATURES

- Tight ratio tolerance (0.01 %)
- 5 decade ratio divider
- High voltage capability (300 V)





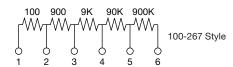
Note

* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING	
TCR	25	5	
	ABSOLUTE	RATIO	
TOL.	0.1	0.01	

SCHEMATIC



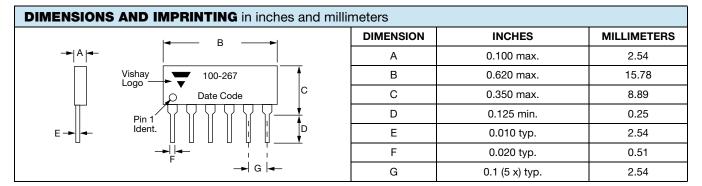
STANDARD ELECTRICAL SPECIFICATIONS				
TEST	SPECIFICATIONS	CONDITIONS		
Material	Passivated nichrome	-		
Pin/Lead Number	6	-		
Resistance Range	100 Ω to 1 M Ω total	-		
TCR: Absolute	± 25 ppm/°C	0 °C to +70 °C		
TCR: Tracking	± 5 ppm/°C	0 °C to +70 °C		
Tolerance: Absolute	± 0.1 %	+25 °C		
Tolerance: Ratio	± 0.01 % to ± 0.1 %	+25 °C		
Power Rating: Resistor	0.100 W	Maximum at +70 °C		
Power Rating: Package	0.500 W	Maximum at +70 °C		
Stability: Absolute	1000 ppm	2000 h at +70 °C		
Stability: Ratio	200 ppm	2000 h at +70 °C		
Voltage Coefficient	0.1 ppm/V	-		
Working Voltage	300 V	-		
Operating Temperature Range	0 °C to +70 °C	-		
Storage Temperature Range	-55 °C to +125 °C	-		
Noise	- 20 dB	-		
Thermal EMF	0.08 μV/°C	-		
Shelf Life Stability: Absolute	$\Delta R \pm 0.01$ %	1 year at +25 °C		
Shelf Life Stability: Ratio	ΔR ± 0.002 %	1 year at +25 °C		

Revision: 14-Mar-16 Document Number: 60044



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Vishay Dale Thin Film

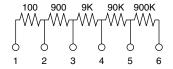


PART NUMBER 100-	267-T	267-Q	267-A	267-B
Ratio Tolerance (1)	0.01 %	0.025 %	0.05 %	0.1 %
Voltage Rating	300 V			
Noise Index	< -30 dB			

 $\frac{R1 + R2 + R3 + R4}{RT} = \frac{100 \text{ k}\Omega}{1 \text{ M}\Omega} = 0.1$

 $\frac{R1 + R2 + R3}{RT} = \frac{10 \text{ k}\Omega}{1 \text{ M}\Omega} = 0.01$

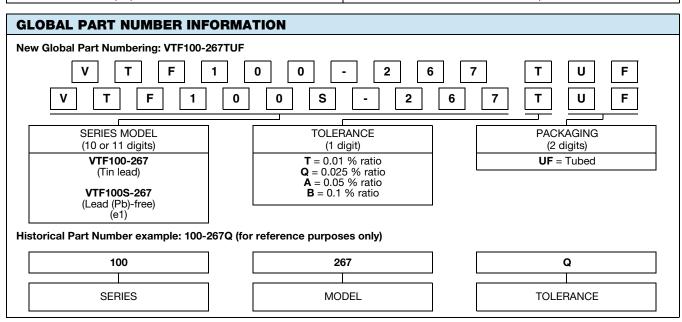
Note
$$^{(1)}$$
 Excluding the 100 Ω



$$\frac{R1 + R2}{RT} = \frac{1 \text{ k}\Omega}{1 \text{ M}\Omega} = 0.001$$

R1 =
$$100 \Omega$$
 $\pm 0.1 \%$

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Alumina	
Body	Conformal coated	
Terminals	Copper alloy	
Marking Resistance to Solvents	Per MIL-PRF-83401	
Tin/Lead Option	Sn60 - Sn63	
Lead (Pb)-free Option	Sn96.5, Ag3.0, Cu0.5	
Tin/Lead and Lead (Pb)-free Finish	Hot solder dip	





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