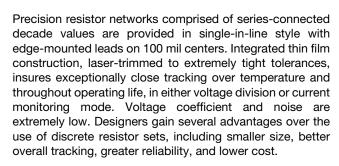
Vishay Dale Thin Film

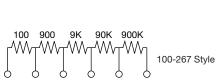
Decade Divider, Single In-Line, Thin Film Divider, Through Hole Resistor Network



1606

www.vishay.com

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	$\Delta R \pm 0.002 \%$	1 year at +25 °C

FEATURES

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



 Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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

\bullet	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.1	0.01

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100-267



Vishay Dale Thin Film

◄ ─── B ───►	DIMENSION	INCHES MILLIMETE		
	А	0.100 max. 2.54		
Vishay 100-267	В	0.620 max. 15.78		
Logo Date Code	С	0.350 max. 8.89		
ו ∕לסססססי ו	D	0.125 min. 3.18		
E→ 4- Pin 1 D	E	0.010 typ. 0.25		
	F			
		0.020 typ. 0.51		
	G	0.1 (5 x) typ. 2.54		
PART NUMBER 100- 267-T 267-Q 267-A 267-B Ratio Tolerance ⁽¹⁾ 0.01 % 0.025 % 0.05 % 0.1 % /oltage Rating 300 V 300 V 300 V 300 V	<u>R1 + R2 +</u> R	= = 01		
loise Index < -30 dB te Excluding the 100 Ω	<u>R1 + R</u> R	$\frac{2 + R3}{T} = \frac{10 k\Omega}{1 M\Omega} = 0.01$		
	<u>R1 -</u> R	$\frac{1 \text{ R2}}{\text{T}} = \frac{1 \text{ k}\Omega}{1 \text{ M}\Omega} = 0.001$		
1 2 3 4 5 6	R	$1 = 100 \Omega \pm 0.1$		
MECHANICAL SPECIFICATIONS				
Resistive Element		Passivated nichrome		
Substrate Material Body		Alumina Conformal coated		
Ferminals		Copper alloy		
Marking Resistance to Solvents		Per MIL-PRF-83401		
Fin/Lead Option		Sn60 - Sn63		
Lead (Pb)-free Option		Sn96.5, Ag3.0, Cu0.5 Hot solder dip		
Fin/Lead and Lead (Pb)-free Finish		Hot solder dip		
GLOBAL PART NUMBER INFORMATION				
lew Global Part Numbering: VTF100-267TUF				
	- 2 6	7 T U F		
SERIES MODEL TOL	ERANCE	PACKAGING		
	digit)	(2 digits)		
VTF100-267 T = 0.	01 % ratio	UF = tubed		
	025 % ratio 05 % ratio			
(Tin lead) Q = 0.0 A = 0				
(Tin lead) VTF100S-267 (Lead (Pb)-free) (e1) Q = 0.1 A = 0. B = 0	.1 % ratio	J		
(Tin lead) VTF100S-267 (Lead (Pb)-free) (e1) Q = 0.1 A = 0. B = 0		, 		
(Tin lead) $\mathbf{VTF100S-267}$ (Lead (Pb)-free) (e1) listorical Part Number Example: 100-267Q (for reference purp		Q		
(Tin lead) $\mathbf{VTF100S-267}$ (Lead (Pb)-free) (e1) Historical Part Number Example: 100-267Q (for reference purp	oses only)	Q		

Revision: 15-Sep-2021

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Document Number: 60044

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