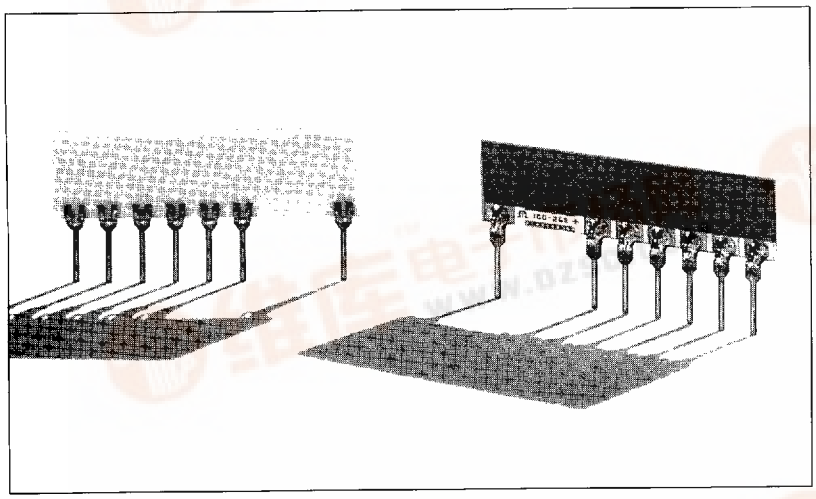
A COMPANY OF VISHAY OHMTEK

Standard Precision Decade Voltage Dividers



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.

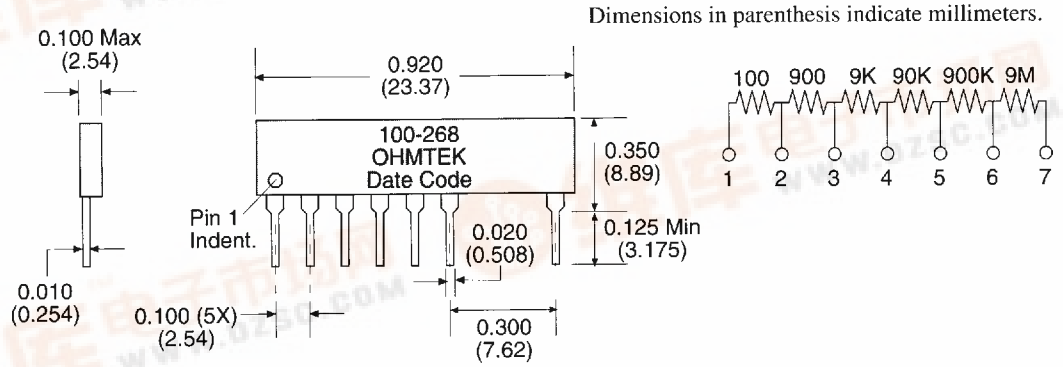
▼ Table 2 General Specifications

TCR (0°C to +60°C)	< 25 ppm/°C
Temperature Tracking (0°C to +60°C)	Resistance: 2.5 ppm/°C Voltage Ratio: 1.5 ppm/°C
Variation of Voltage Ratio with Voltage	0.1 ppm/volt
Load Life of Change (+70° ambient/rated voltage)	Resistance: 300 ppm/1,000 hrs Voltage Ratio: 50 ppm/1,000 hrs

*Excluding the 100 ohm, except on special order.

▼ Figure 26 Mechanical Specifications

Dimensions in parenthesis indicate millimeters.



Part Number 100-	268-T	268-Q	268-A	268-B
Ratio Tolerance	*0.01%	0.025%	0.05%	0.1%
Voltage Rating	1200 Volts			
Noise Index	< –20 dB			

*Excluding the 100 ohm.

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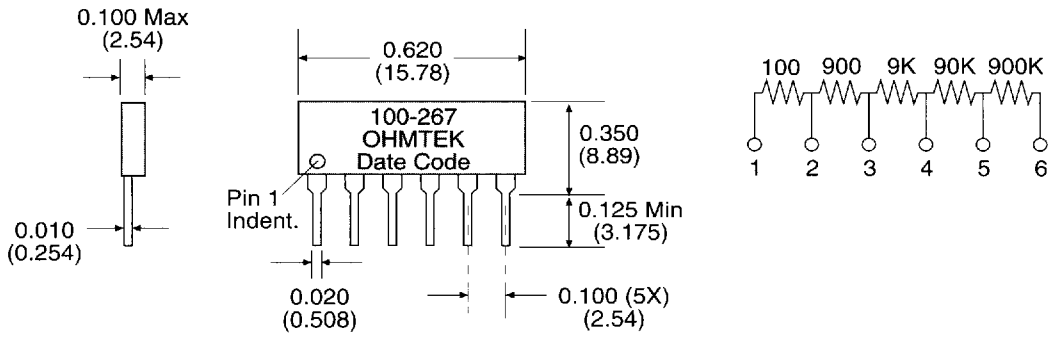
▼ Table 3 Ratio for Series 100 - 268

$\frac{R1+R2+R3+R4+R5}{RT}$	=	$\frac{1\,Megohm}{10\,Megohms}$	=	0.1
$\frac{R1+R2+R3+R4}{RT}$	=	$\frac{100K\,ohms}{10\,Megohms}$	=	0.01
$\frac{R1+R2+R3}{RT}$	=	$\frac{10K\,ohms}{10\,Megohms}$	=	0.001
$\frac{R1+R2}{RT}$	=	$\frac{1K\,ohms}{10\,Megohms}$	=	0.0001
R1	=	100 ohms		±0.1%

▼ Figure 27 Mechanical Specifications

Dimensions in parenthesis indicate millimeters.



Part Number 100-	267-T	267-Q	267-A	267-B
Ratio Tolerance	*0.01%	0.025%	0.05%	0.1%
Voltage Rating	300 Volts			
Noise Index	< –30 dB			

*Excluding the 100 ohm.

▼ Table 4 Ratio for Series 100 - 267

$\frac{R1+R2+R3+R4}{RT}$	=	$\frac{100K\,ohms}{10\,Megohms}$	=	0.1
$\frac{R1+R2+R3}{RT}$	=	$\frac{10K\,ohms}{10\,Megohms}$	=	0.01
$\frac{R1+R2}{RT}$	=	$\frac{1K\,ohms}{10\,Megohms}$	=	0.001
R1	=	100 ohms		±0.1%

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