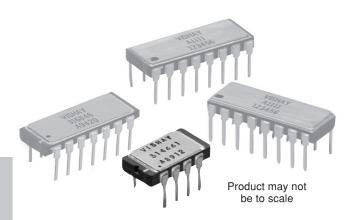
Vishay Foil Resistors



Bulk Metal[®] Foil Technology Dual-In-Line Hermetic Resistor Networks

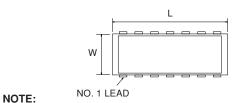


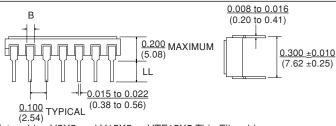
Vishay Model 1442, 1445 and 1446 networks incorporate all the performance features of Vishay Bulk Metal® Foil technology. The 8, 14 and 16 pin side brazed DIPs are a ceramic package. Ceramic has the advantage of electrical isolation on the underside, and, in DIP form, a favorable pin arrangement when two networks are to be placed side by side and connected together.

Review data sheet "7 Technical Reasons to Specify Bulk Metal® Foil Resistor Networks."

Networks are built to your requirements. Send your schematic and electrical requirements to the Applications Engineering Department. (See data sheet "Network Worksheet.") A unique part number will be assigned which defines all aspects of your network.

FIGURE 1 - PACKAGE SIZES AND CHARACTERISTICS





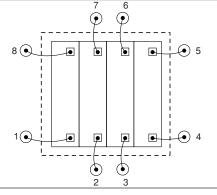
- These networks utilize Vishay Bulk Metal® Foil resistor chips V5X5 and V15X5 or VTF15X5 Thin Film chips.
- The V5X5 and V15X5 chips have maximum resistance values of 10K and 33K respectively in Bulk Metal® Foil and 500K in VTF15X5 Thin Film chips.
- The V5X5 and V15X5 chip(s) can be intermixed in a package.

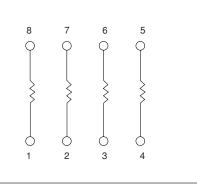
VISHAY MODEL	NO. OF PINS	MAXIMUM DIMENSIONS in Inches (mm)				CHIP CAPACITY		MAXIMUM POWER RATING
		L	W	В	LL	V5X5	V15X5	(WATTS) @ +70°C
1442	8	0.520 ±0.020 (13.21 ±0.51)	0.295 ±0.010 (7.49 ±0.025)	0.054 (1.37)	0.125 minimum (3.18)	12	4	0.4
1445	14	0.740 ±0.045 (18.80 ±1.14)	0.270 +0.035/-0.030 (6.86 +0.89/-0.76)	0.046 (1.17)	0.135 +0.015/-0.010 (3.43 +0.38/-0.25)	30	10	1.2
1446	16	0.780 ±0.030 (19.81 ±0.76)	0.290 ±0.008 (7.37 ±0.20)	0.040 to 0.070 (1.01 to 1.78)	0.135 +0.015/-0.010 (3.43 +0.38/-0.25)	36	12	1.4

FIGURE 2 - SAMPLE CIRCUIT DESIGN AND CHIP LAYOUT

NOTE:

Usable area is represented by the dotted lines— a rectangle 0.150 Inches x 0.200 Inches. Illustrations not to scale. Chips shown undersize for clarity. Drawing view is from the top looking down into the package.





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Bulk Metal® Foil Technology Dual-In-Line Hermetic Resistor Networks

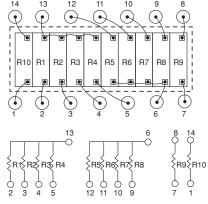
Vishay Foil Resistors

FIGURE 3 - SAMPLE CIRCUIT DESIGNS AND CHIP LAYOUTS

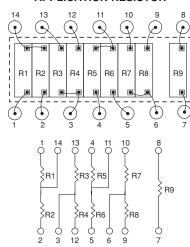
NOTE:

Usable area is represented by the dotted lines— a rectangle 0.150 Inches x 0.500 Inches. Illustrations not to scale. Chips shown undersize for clarity. Drawing view is from the top looking down into the package.

TWO DECADES OF BCD LADDER **PLUS TWO SCALING RESISTORS**



FOUR DIVIDERS PLUS APPLICATION RESISTOR



TEN RESISTOR DIVIDER

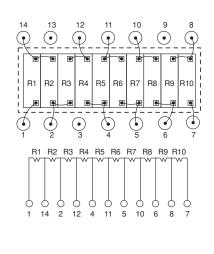


FIGURE 4 - SAMPLE CIRCUIT DESIGNS AND CHIP LAYOUTS

Usable area is represented by the dotted lines— a rectangle 0.150 Inches x 0.600 Inches. Illustrations not to scale. Chips shown undersize for clarity. Drawing view is from the top looking down into the package.

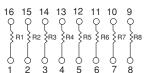
ELEVEN RESISTOR DIVIDER



 \Diamond 16 2 15 4 13 5 12 7 10 8 9

EIGHT RESISTOR PACKAGE





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