

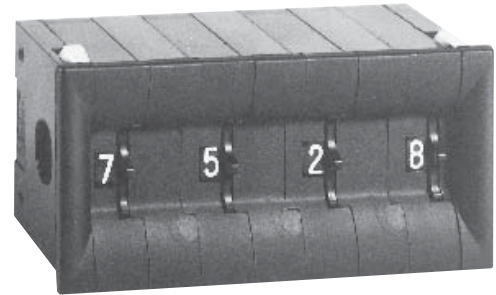
Digital Potentiometer Kelvin-Varley Voltage Divider

KVD-500 Series

DP-500 Series

• Digital potentiometers and Kelvin-Varley voltage dividers

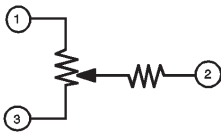
- Suitable for use in voltage and current dividers
- Eliminates the need for dials & multi-turn potentiometers
- 1, 2, 3, 4, 5, and 6 decade units are available



4 Decade DP-500 Digital Potentiometer or
KVD-500 Voltage Divider (HVD-500 not shown)

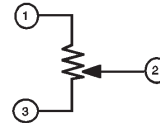
SELECTION GUIDE

KVD-500 Series



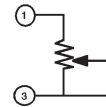
Kelvin-Varley Voltage divider circuit - more economical than the DP-500. Operates in the same way as the DP-500, except that it has an additional, but variable resistance in series with the wiper arm which goes to zero at the full scale and zero settings. Use this type where the wiper is input into a high input impedance or if it does not affect the particular application; The KVD-500 is suitable for most voltage divider applications. See KVD-600/KVD-700 (p. 29) for additional information.

DP-500 Series



TRUE potentiometer circuit. Use this type where needed to substitute for a three terminal potentiometer, where all three terminals are required individually.

RS Series



Two terminal variable digital resistance - most economical whenever three terminals are not required. See RS Series data sheet (p. 9) for additional information.

SPECIFICATIONS

KVD-500 and DP-500

- Minimum Potentiometer Resistance: 0.05 Ω/decade.
- Power Across Input Terminals: 2 W; others available.
- Temperature Coefficient: 50 ppm/°C; others available.
- Operating Temperature: 10°C to 50°C.

ORDERING INFORMATION

IET can supply any value in a number of tolerances and decades. A part number is determined as follows:

KVD-500 - B - 50k - 5 - PM (Example: 50 kΩ, 0.1%, 5 decade Kelvin-Varley Divider for panel mounting)

SERIES	TOLERANCE	TOTAL* RESISTANCE(Ω)	NO. OF DECADES**						OPTIONS
KVD-500 DP-500	X: 0.01% ± 5 mΩ Q: 0.02% ± 5 mΩ A: 0.05% ± 50 mΩ B: 0.1% ± 50 mΩ C: 0.5% ± 50 mΩ E: 1.0% ± 50 mΩ	1, 2, 5 10, 20, 50 100, 200, 500 1 k, 2 k, 5 k 10 k, 20 k, 50 k 100k, 200k, 500k 1 M, 2 M, 5 M 10 M, 20 M, 50 M	1	2	3	4	5	6	PM: Supplied without case for panel mounting or other use WC: Packaged in a plastic case with binding posts. Size: 81 mm x 79 mm x 56 mm (3.2 x 3.1 x 2.2 in.) or 120 mm x 79 mm x 56 mm (4.7 x 3.1 x 2.2 in.) xV: Maximum voltage for HVD-500
			x						
			x	x					
			x	x					
			x	x	x				
			x	x	x	x			
			x	x	x	x	x		
			x	x	x	x	x		

* For HVD-500, resistance range is 1 MΩ - 1 TΩ
Other resistance values available on request.
** Number of decades for KVD-500 and DP-500.

Decimal points available on request

