Vishay Dale



Thick Film Resistor Networks, Dual-In-Line, Molded DIP



FEATURES

- · 0.190" [4.83mm] maximum seated height
- Rugged, molded case construction
- Low temperature coefficient (- 55°C to + 125°C), MDP 1645: ± 100ppm/°C, MDP 1646: ± 250ppm/°C
- · Compatible with automatic insertion equipment
- · Highly stable thick film
- Reduces PC board space and reduces total assembly costs
- Available in tube pack

STANDARD ELECTRICAL SPECIFICATIONS										
MODEL/ PIN NO.	RESISTOR POWER RATING Max. @ 70°C	PACKAGE POWER RATING Max. @ 70°C		TEMPERATURE COEFFICIENT (- 55°C to + 125°C)	TEMPERATURE COEFFICIENT TRACKING	WEIGHT				
	vv	VV	± %	ppm/ C	ppm/ C	g				
MDP 1645	0.125	2.0	2	± 100 Typical	± 150	1.5				
MDP 1646	0.125	2.0	5	± 250 Typical	± 150	1.5				



MDP1645MODELNUMBER OF PINSSCHEMATIC



MDP 1645, 1646

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DIMENSIONS in inches [millimeters]





TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	MDP Series				
Maximum Operating Voltage	VDC	100				
Voltage Coefficient of Resistance (Typical)	V _{eff}	< 50 ppm/°C				
Operating Temperature Range	°C	- 55 to + 125				
Storage Temperature Range	°C	- 55 to + 150				

MECHANICAL SPECIFICATIONS					
Marking Resistance to Solvents:	Permanency testing per MIL- STD-202, Method 215.				
Solderability:	Per MIL-STD-202, Method 208E.				
Terminals:	Copper alloy, tin-lead plated.				
Body:	Molded epoxy.				
Weight:	1.5 grams.				

PERFORMANCE						
TEST	CONDITIONS	MAX. ΔR (Typical Test Lots)				
Thermal Shock	5 cycles between - 65°C and + 125°C	± 0.50% ΔR				
Short Time Overload	2.5 x rated working voltage 5 seconds	± 0.25% ∆R				
Low Temperature Operation	45 minutes at full rated working voltage at - 65°C	± 0.25% ∆R				
Moisture Resistance	240 hours with humidity ranging from 80% RH to 98% RH	± 0.50% ∆R				
Resistance to Soldering Heat	Leads immersed in + 260°C solder to within 1/16" of body for 10 seconds	± 0.25% ∆R				
Shock	Total of 18 shocks at 100 g's	± 0.25% ∆R				
Vibration	12 hours at maximum of 20 g's between 10 and 2,000 Hz	± 0.25% ∆R				
Load Life	1,000 hours at + 70°C, rated power applied 1.5 hours "ON", 0.5 hour	± 0.50% ΔR				
	"OFF" for full 1000 hour period. Derated according to the curve.					
Terminal Strength	4 1/2 pound pull for 30 seconds	± 0.25% ∆R				
Insulation Resistance	10,000 Megohm (minimum)	_				
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V RMS for 1 minute)	_				