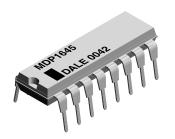




Thick Film Resistor Networks, Dual-In-Line, Molded DIP



FEATURES

 TTL/ECL translater and SCSI-BUS signal terminator schematics available



- 0.190" (4.83 mm) maximum seated height
- Rugged, molded case construction
- Low temperature coefficient (-55 °C to +125 °C), MDP 1645: ± 100 ppm/°C, MDP 1646: ± 250 ppm/°C

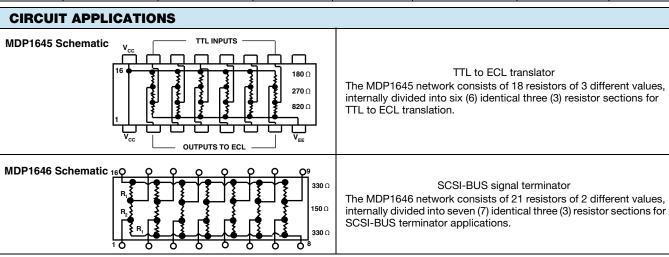


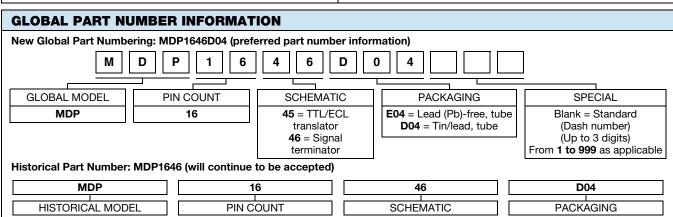
- · Compatible with automatic insertion equipment
- Thick film resistive elements
- · Reduces PC board space and reduces total assembly costs
- Available in tube pack
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

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.

STANDARD ELECTRICAL SPECIFICATIONS											
GLOBAL MODEL/ PIN NO.	POWER RATING ELEMENT P _{70 °C} W	POWER RATING PACKAGE P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUES Ω	TEMPERATURE COEFFICIENT (-55 °C to +125 °C) ± ppm/°C (Typ.)	TCR TRACKING ± ppm/°C	WEIGHT g				
MDP1645	0.125	2.0	2	180, 270, 820	100	150	1.5				
MDP1646	0.125	2.0	5	330, 150	250	150	1.5				





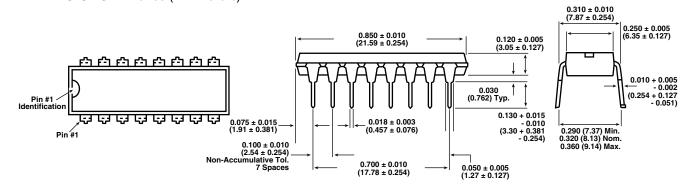
Note

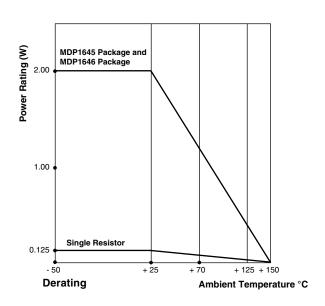
Revision: 29-Nov-13

• For additional information on packaging, refer to the Through-Hole Network Packaging document (www.vishay.com/doc?31542).



DIMENSIONS in inches (millimeters)





TECHNICAL SPECIFICATIONS						
PARAMETER		IT MDP SERIES				
Maximum Operating Voltage		100				
Voltage Coefficient of Resistance (Typical)		< 50 ppm/°C				
Operating Temperature Range		-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, solder plated					
Body	Molded epoxy					
Weight	1.5 g					

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 s	± 0.25 % ΔR					
Low Temperature Operation	45 min at full rated working voltage at -65 °C	± 0.25 % ΔR					
Moisture Resistance	240 h with humidity ranging from 80 % RH to 98 % RH	± 0.50 % ΔR					
Resistance to Soldering Heat	Leads immersed in +260 °C solder to within 1/16" of body for 10 s	± 0.25 % ΔR					
Shock	Total of 18 shocks at 100 g's	± 0.25 % ΔR					
Vibration	12 h at maximum of 20 g 's between 10 Hz and 2000 Hz	± 0.25% ΔR					
Load Life	1000 h at +70 °C, rated power applied 1.5 h "ON", 0.5 h "OFF" for full 1000 h period. Derated according to the curve.	± 0.50 % ΔR					
Terminal Strength	4 1/2 pound pull for 30 s	± 0.25 % ΔR					
Insulation Resistance	10 000 M Ω (minimum)	-					
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V _{RMS} for 1 min)	-					



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