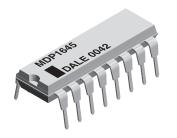
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Thick Film Resistor Networks, Dual-In-Line, Molded DIP



FEATURES

- 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
- · Lead (Pb)-free version is RoHS compliant

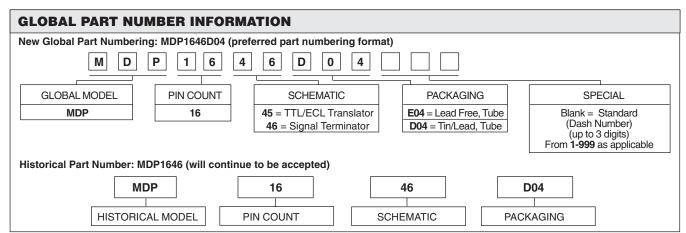




RoHS*

STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL/ PIN NO.	RESISTOR POWER RATING Max. AT 70 °C W	PACKAGE POWER RATING Max. AT 70 °C W	STANDARD TOLERANCE ± %	TEMPERATURE COEFFICIENT (- 55 °C to + 125 °C) ppm/°C	TEMPERATURE COEFFICIENT TRACKING ppm/°C	WEIGHT g			
MDP1645	0.125	2.0	2	± 100 Typical	± 150	1.5			
MDP1646	0.125	2.0	5	± 250 Typical	± 150	1.5			

STANDARD ELECTRICAL SPECIFICATIONS MDP1645 Schematic TTL INPUTS TTL to ECL translator The MDP1645 network consists of 18 resistors of 3 different **270** Ω values, internally divided into six (6) identical three (3) resistor **820** Ω sections for TTL to ECL translation. **OUTPUTS TO ECL** MDP1646 Schematic SCSI-BUS signal terminator The MDP1646 network consists of 21 resistors of 2 different **150** Ω values, internally divided into seven (7) identical three (3) resistor sections for SCSI-BUS terminator applications.

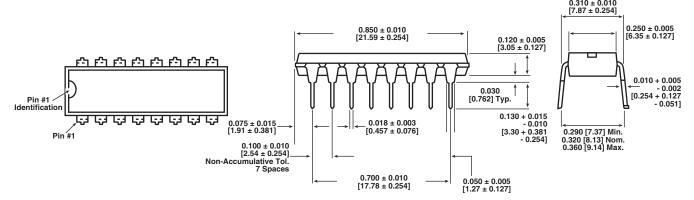


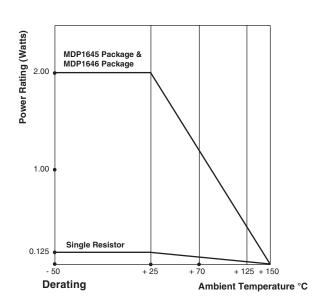
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

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DIMENSIONS in inches [millimeters]





TECHNICAL SPECIFICATIONS						
PARAMETER		MDP Series				
Maximum Operating Voltage		100				
Voltage Coefficient of Resistance (Typical)		< 50 ppm/°C				
Operating Temperature Range		- 55 to + 125				
Storage Temperature Range		- 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 grams				

PERFORMANCE						
TEST	CONDITIONS					
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 % ΔR				
Low Temperature Operation	45 minutes at full rated working voltage at - 65 °C	± 0.25 % ΔR				
Moisture Resistance	240 hours 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 seconds	± 0.25 % ΔR				
Shock	Total of 18 shocks at 100 g's	± 0.25 % ΔR				
Vibration	12 hours at maximum of 20 g's between 10 and 2000 Hz	± 0.2 5% ΔR				
Load Life	1000 hours at + 70 °C, rated power applied 1.5 hours "ON", 0.5 hour "OFF" for full 1000 hour period. Derated according to the curve.	± 0.50 % ΔR				
Terminal Strength	4 1/2 pound pull for 30 seconds	± 0.25 % ΔR				
Insulation Resistance	10 000 Megohm (minimum)	-				
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V RMS for 1 minute)	-				

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