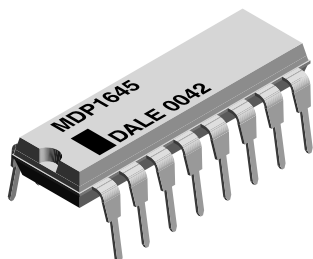


Thick Film Resistor Networks, Dual-In-Line, Molded DIP



FEATURES

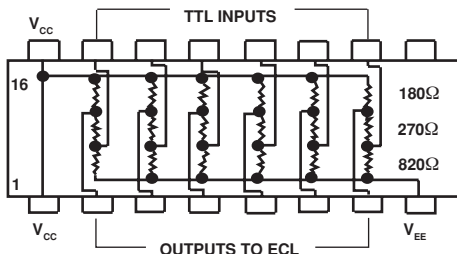
- 0.190" [4.83mm] maximum seated height
- Rugged, molded case construction
- Low temperature coefficient (- 55°C to + 125°C), MDP 1645: ± 100ppm/°C, MDP 1646: ± 250ppm/°C
- Compatible with automatic insertion equipment
- Highly stable thick film
- Reduces PC board space and reduces total assembly costs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

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL/ PIN NO.	RESISTOR POWER RATING Max. @ 70°C W	PACKAGE POWER RATING Max. @ 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

CIRCUIT APPLICATIONS

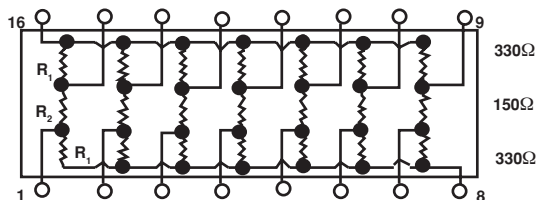
MDP1645 Schematic



TTL to ECL translator

The MDP1645 network consists of 18 resistors of 3 different values, internally divided into six (6) identical three (3) resistor sections for TTL to ECL translation.

MDP1646 Schematic

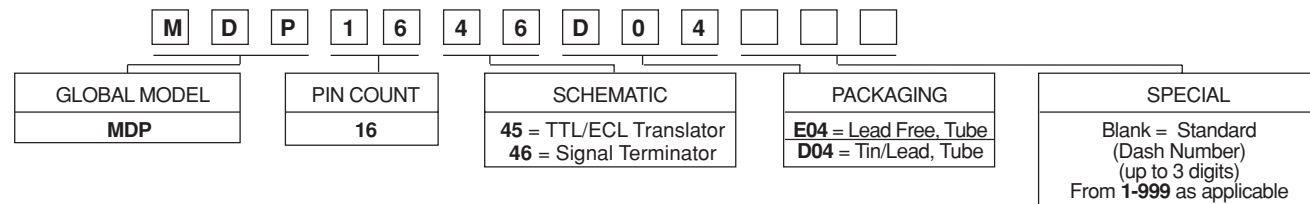


SCSI-BUS signal terminator

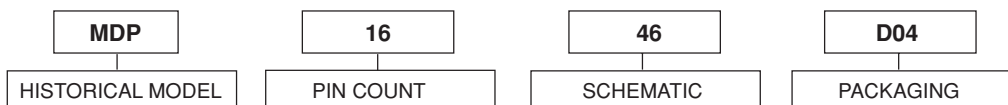
The MDP1646 network consists of 21 resistors of 2 different values, internally divided into seven (7) identical three (3) resistor sections for SCSI-BUS terminator applications.

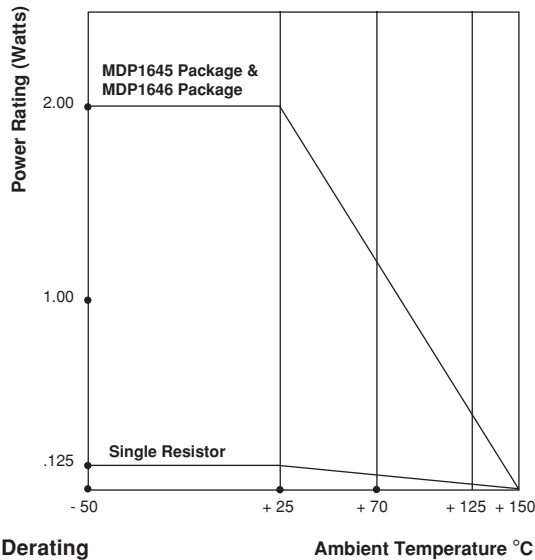
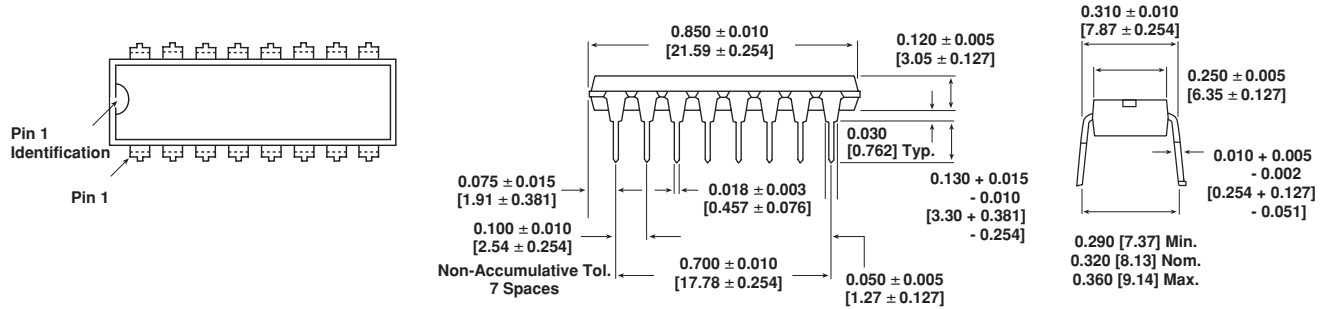
GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: MDP1646D04 (preferred part numbering format)



Historical Part Number: MDP1646 (will continue to be accepted)



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, solder 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% 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 2,000 Hz	± 0.25% ΔR
Load Life	1,000 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)	—