



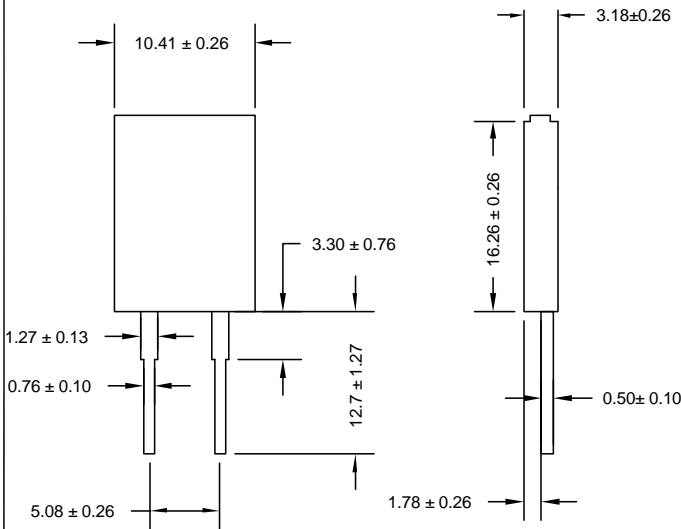
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SPC-F005.DWG

REVISIONS

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1996	A	Released	JN	11/07/08	JWM	11/07/08	JWM	11/07/08

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1308



- Features :
- Molded case for environmental protection
 - Electrically isolated case
 - Non-inductive package



Mounting Note :

When mounting ensure entire ceramic portion of case is mounted on a clean, flat heat sink with an appropriate thermal interface, such as thermal grease. For screw mounting use of a compression washer at a force of 150 to 300lbs (665 to 1330N) is recommended without exceeding mounting torque of 8 in-lbs (0.9 N-m) to avoid package damage. For clip mounting use of a round or smooth clip in contact area is recommended to avoid a concentrated hot spot on package.

Electrical Specifications							
Power Rating (Watts) @ 25°C with Heat Sink	Free Air Power Rating	Maximum Working Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance			
				0.50%	1%	5%	10%
50w	3W in free air at 25°C	350V	±50ppm/°C ±100ppm/°C ±200ppm/°C	11Ω - 10KΩ 11Ω - 10KΩ 11Ω - 10KΩ	1Ω - 10KΩ Ω - 10KΩ Ω - 10KΩ	1Ω - 10KΩ Ω - 10KΩ Ω - 10KΩ	11Ω - 10KΩ Ω - 10KΩ Ω - 10KΩ

Environmental Characteristics		
Test Item	Specification	Test Method
Short Time Overload	ΔR ± (0.3 % + 0.001 Ω)	2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds
Load Life	ΔR ± (1.0 % + 0.001 Ω)	MIL-R-39008, 2000 hours at rated power
Moisture Resistance	ΔR ± (0.5 % + 0.001 Ω)	MIL-STD-202, Method 103B
Thermal Shock	ΔR ± (0.3 % + 0.001 Ω)	MIL-STD-202, Method 107G
Terminal Strength	ΔR ± (0.2 % + 0.001 Ω)	MIL-STD-202, Method 211, Condition A (Pull Test) 2.4N
Vibration, High Frequency	ΔR ± (0.2 % + 0.001 Ω)	MIL-STD-202, Method 204, Condition D
Dielectric Strength		1800VAC
Insulation Resistance		10GΩ Min

Mfg. P/N	Resistance
MCTR50T3-1R00JB	1ohm
MCTR50T1-10R0JB	10ohm
MCTR50T1-5R00JB	5ohm
MCTR50T2-100RJB	100ohm
MCTR50T2-1001JB	1kohm
MCTR50T2-1002JB	10kohm
MCTR50T2-15R0JB	15ohm
MCTR50T2-150RJB	150ohm
MCTR50T2-22R0JB	22ohm
MCTR50T2-220RJB	220ohm
MCTR50T2-24R0JB	24ohm
MCTR50T2-2701JB	2.7kohm
MCTR50T2-33R0JB	33ohm
MCTR50T2-47R0JB	47ohm
MCTR50T2-470RJB	470ohm
MCTR50T2-5001JB	5kohm
MCTR50T2-51R0JB	51ohm

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TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Jason Nash	11/07/08
CHECKED BY:	DATE:
Jeff McVicker	11/07/08
APPROVED BY:	DATE:
Jeff McVicker	11/07/08

DRAWING TITLE:			
Power Resistor			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	Ta-1051	Ta-1051.dwg	A
SCALE:	NTS	U.Q.M.: INCHES [mm]	SHEET: 1 OF 1