



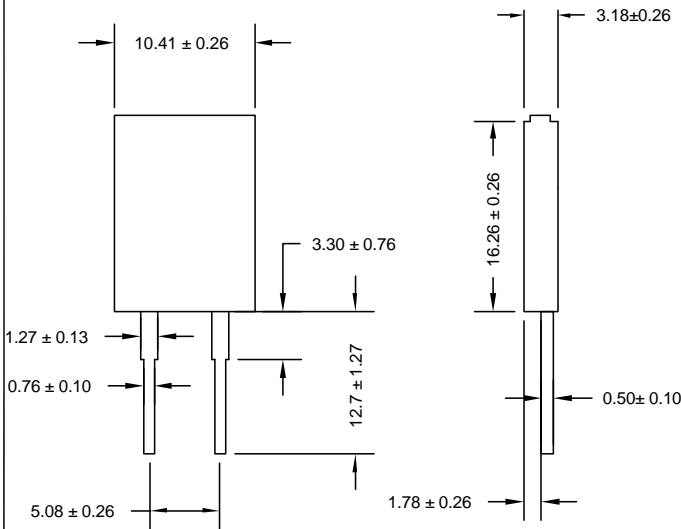
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SPC-F005.DWG

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%
25w	3W in free air at 25°C	350V	±50ppm/°C ±100ppm/°C ±200ppm/°C	11Ω - 10KΩ 11Ω - 10KΩ 11Ω - 10KΩ	1Ω - 10KΩ Ω - 10KΩ 5Ω - 10KΩ	1Ω - 10KΩ 5Ω - 10KΩ 1.5Ω - 10Ω 0.05Ω - 1.0Ω**	11Ω - 10KΩ Ω - 10KΩ 1.5Ω - 10Ω 0.05Ω - 1.0Ω**

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

ManufPartNo	Resistance
MCTR20T3-1R00JB	1ohm
MCTR20T1-10R0JB	10ohm
MCTR20T1-5R00JB	5ohm
MCTR20T2-100RJB	100ohm
MCTR20T2-1001JB	1kohm
MCTR20T2-1002JB	10kohm
MCTR20T2-15R0JB	15ohm
MCTR20T2-150RJB	150ohm
MCTR20T2-22R0JB	22ohm
MCTR20T2-220RJB	220ohm
MCTR20T2-24R0JB	24ohm
MCTR20T2-2701JB	2.7kohm
MCTR20T2-33R0JB	33ohm
MCTR20T2-47R0JB	47ohm
MCTR20T2-470RJB	470ohm
MCTR20T2-5001JB	5kohm
MCTR20T2-51R0JB	51ohm

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

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-1053	Ta-1053.dwg	A
SCALE:	NTS	U.Q.M.: INCHES [mm]	SHEET: 1 OF 1