



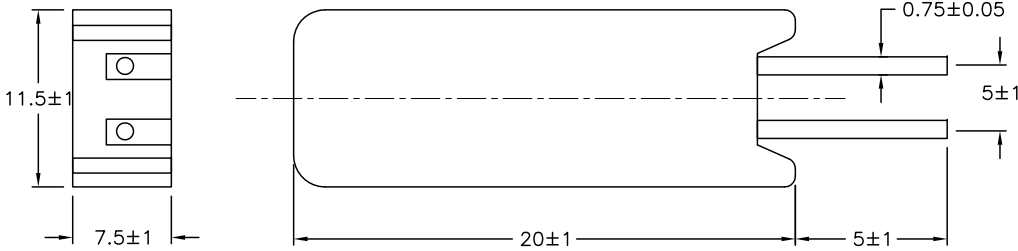
ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.

SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 \* Effective: 7/8/02 \* DCP No: 1398

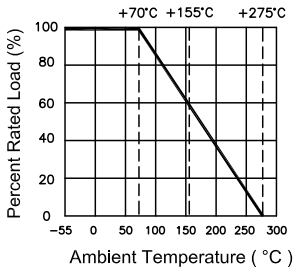
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1991	A	RELEASED	JN	05/15/09	JWM	05/15/09	JWW	05/15/09



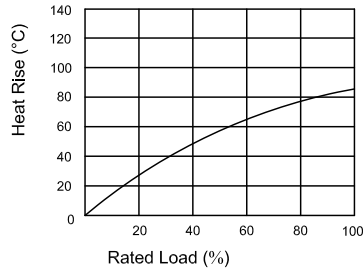
Performance Specification

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanical safe
- Product Type: Power Film Resistor
- Power Rating: 2 Watts
- Resistance Tolerance: ±5%

Derating Curve



Heat Rise Chart



Performance Specification

- Temperature coefficient: <20Ω: ±400PPM/°C; ≥20: ±350PPM/°C
- Short-time overload:  $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
- Dielectric withstanding voltage: No evidence of flashover, mechanical damage, arcing or insulation breakdown.
- Terminal strength: No evidence of mechanical damage.
- Solderability: Min. 95% coverage
- Temperature cycling:  $\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
- Humidity (Steady State):  $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
- Load life in humidity: For Wire-wound range, the  $\Delta R/R$  is ±5%  
For Power film range, <100KΩ, the  $\Delta R/R$  is ±5%  
For Power film range, ≥100KΩ, the  $\Delta R/R$  is ±10%
- Load Life: For Wire-wound range, the  $\Delta R/R$  is ±5%  
For Power film range, <100KΩ, the  $\Delta R/R$  is ±5%  
For Power film range, ≥100KΩ, the  $\Delta R/R$  is ±10%
- Resistance to solderability heat:  $\Delta R/R \pm(1.0\% + 0.05\Omega)$  with no evidence of mechanical damage.

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	05/15/09
CHECKED BY:	DATE:
JWM	05/15/09
APPROVED BY:	DATE:
JWM	05/15/09

DRAWING TITLE:			
2 watt (Power Film) Cement Fixed Resistors			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	Ta-1164	Ta-1164.DWG	A
SCALE: NTS		U.O.M.: INCHES	SHEET: 1 OF 2

Mfg. P/N	Resistance (Ohms)
MCPRM02WJP101B00	100
MCPRM02WJP102B00	1k
MCPRM02WJP103B00	10k
MCPRM02WJP151B00	150
MCPRM02WJP152B00	1.5k
MCPRM02WJP153B00	15k
MCPRM02WJP201B00	200
MCPRM02WJP202B00	2k
MCPRM02WJP203B00	20k
MCPRM02WJP243B00	24k
MCPRM02WJP253B00	25k
MCPRM02WJP271B00	270
MCPRM02WJP272B00	2.7k
MCPRM02WJP300B00	30
MCPRM02WJP301B00	300
MCPRM02WJP302B00	3k
MCPRM02WJP330B00	33
MCPRM02WJP331B00	330
MCPRM02WJP332B00	3.3k
MCPRM02WJP333B00	33k
MCPRM02WJP391B00	390
MCPRM02WJP392B00	3.9k
MCPRM02WJP430B00	43
MCPRM02WJP431B00	430
MCPRM02WJP432B00	4.3k
MCPRM02WJP470B00	47
MCPRM02WJP471B00	470
MCPRM02WJP472B00	4.7k
MCPRM02WJP560B00	56
MCPRM02WJP561B00	560
MCPRM02WJP562B00	5.6k
MCPRM02WJP680B00	68
MCPRM02WJP681B00	680
MCPRM02WJP682B00	6.8k
MCPRM02WJP750B00	75
MCPRM02WJP751B00	750
MCPRM02WJP752B00	7.5k
MCPRM02WJP821B00	820
MCPRM02WJP822B00	8.2k

ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.

SIZE DWG. NO.

A

Ta-1164

ELECTRONIC FILE

Ta-1164.dwg

REV

A

SPC-F005.DWG

DOC. NO. SPC-F005 \* Effective: 7/8/02 \* DCP No: 1398

SCALE: NTS

U.O.M.: Millimeters

SHEET: 2 OF 2