



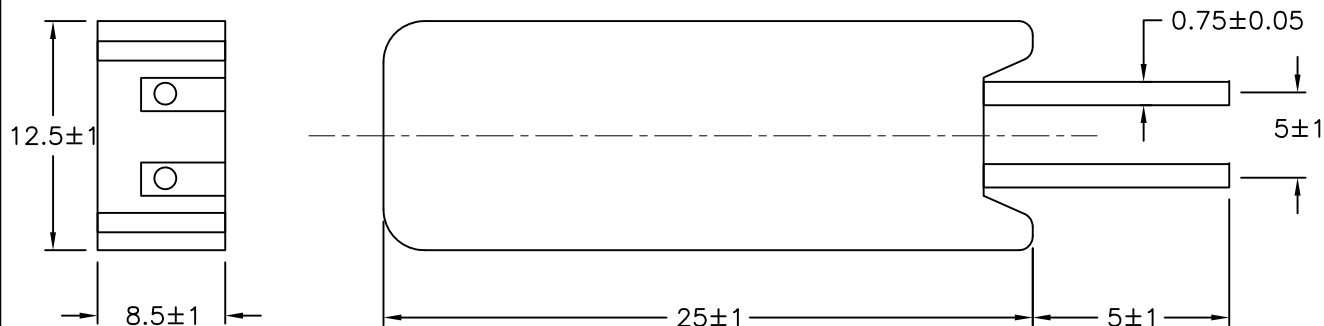
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SPC-F005.DWG

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	JWV	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: 3 Watts
- Resistance Tolerance: $\pm 5\%$

Performance Specification

-Temperature coefficient: $<20\Omega$: $\pm 400\text{PPM}/^\circ\text{C}$; ≥ 20 : $\pm 350\text{PPM}/^\circ\text{C}$

-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.

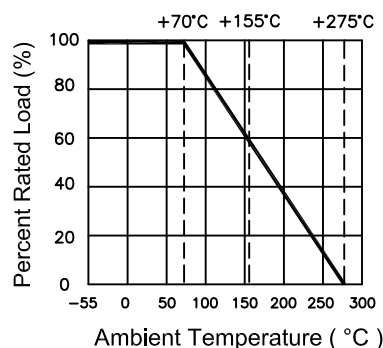
-Humidity (Steady State): $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

-Load life in humidity: For Wire-wound range, the $\Delta R/R$ is $\pm 5\%$
For Power film range, $<100\text{K}\Omega$, the $\Delta R/R$ is $\pm 5\%$
For Power film range, $\geq 100\text{K}\Omega$, the $\Delta R/R$ is $\pm 10\%$

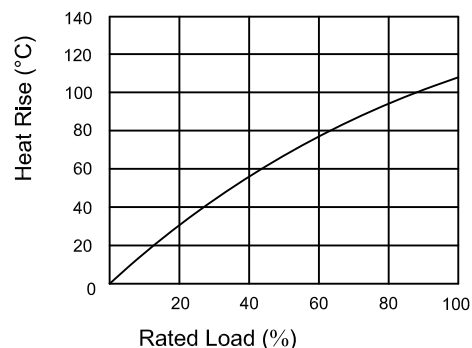
-Load Life: For Wire-wound range, the $\Delta R/R$ is $\pm 5\%$
For Power film range, $<100\text{K}\Omega$, the $\Delta R/R$ is $\pm 5\%$
For Power film range, $\geq 100\text{K}\Omega$, the $\Delta R/R$ is $\pm 10\%$

-Resistance to solderability heat: $\Delta R/R \pm(1.0\% + 0.05\Omega)$ with no evidence of mechanical damage.

Derating Curve



Heat Rise Chart



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:

Jason Nash

DATE:

05/15/09

CHECKED BY:

JWM

DATE:

05/15/09

APPROVED BY:

JWM

DATE:

05/15/09

DRAWING TITLE:

3 watt (Power Film) Cement Fixed Resistors

SIZE

A

DWG. NO.

Ta-1166

ELECTRONIC FILE

Ta-1166.DWG

REV

A

SCALE:

NTS

U.O.M.: Millimeters

SHEET: 1 OF 2

Mfg. P/N	Resistance (Ohms)
MCPRM03WJP101B00	100
MCPRM03WJP102B00	1k
MCPRM03WJP103B00	10k
MCPRM03WJP151B00	150
MCPRM03WJP152B00	1.5k
MCPRM03WJP153B00	15k
MCPRM03WJP201B00	200
MCPRM03WJP203B00	20k
MCPRM03WJP243B00	24k
MCPRM03WJP432B00	4.3k
MCPRM03WJP470B00	47
MCPRM03WJP471B00	470
MCPRM03WJP472B00	4.7k
MCPRM03WJP473B00	47k
MCPRM03WJP503B00	50k
MCPRM03WJP513B00	51k
MCPRM03WJP560B00	56
MCPRM03WJP561B00	560
MCPRM03WJP562B00	5.6k
MCPRM03WJP563B00	56k
MCPRM03WJP680B00	68
MCPRM03WJP681B00	680
MCPRM03WJP682B00	6.8k
MCPRM03WJP750B00	75
MCPRM03WJP751B00	750
MCPRM03WJP752B00	7.5k
MCPRM03WJP820B00	82
MCPRM03WJP821B00	820
MCPRM03WJP822B00	8.2k

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SIZE
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Ta-1166.dwg

REV
A

SCALE: NTS

U.O.M.: Millimeters

SHEET: 2 OF 2