



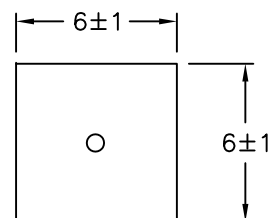
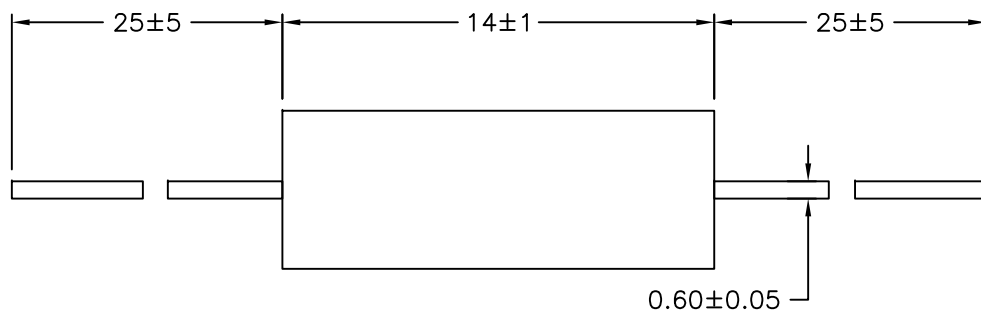
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SPC-F005.DWG

## REVISIONS

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

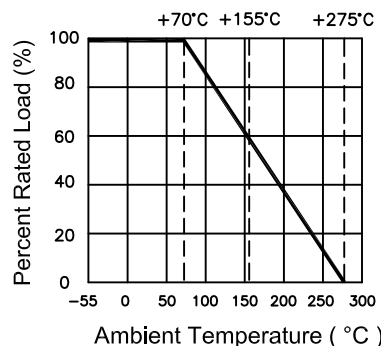
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1991	A	RELEASED	JN	05/15/09	JWM	05/15/09	JWV	05/15/09



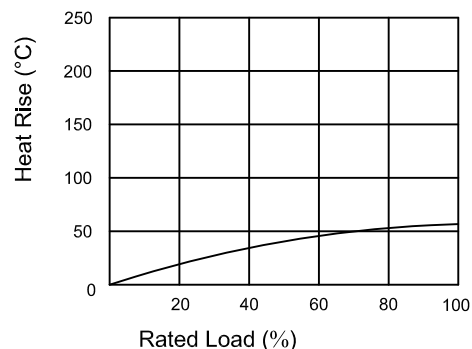
### Performance Specification

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanical safe
- Product Type: Power Film Resistor
- Power Rating: 1 Watts
- Resistance Tolerance:  $\pm 5\%$

### Derating Curve



### Heat Rise Chart



### Performance Specification

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

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

#### CHECKED BY:

JWM

#### APPROVED BY:

JWM

#### DATE:

05/15/09

#### DATE:

05/15/09

#### DATE:

05/15/09

#### DRAWING TITLE:

1watt (Power Film) Cement Fixed Resistors

#### SIZE DWG. NO.

A

Ta-1173

#### ELECTRONIC FILE

Ta-1173.DWG

#### REV

A

#### SCALE: NTS

#### U.O.M.: Millimeters

#### SHEET: 1 OF 2

<b>Mfg. P/N</b>	<b>Resistance (Ohms)</b>
MCPRW01WJP101B00	100
MCPRW01WJP102B00	1k
MCPRW01WJP103B00	10k
MCPRW01WJP151B00	150
MCPRW01WJP152B00	1.5k
MCPRW01WJP153B00	15k
MCPRW01WJP201B00	200
MCPRW01WJP202B00	2k
MCPRW01WJP203B00	20k
MCPRW01WJP243B00	24k
MCPRW01WJP253B00	25k
MCPRW01WJP271B00	270
MCPRW01WJP272B00	2.7k
MCPRW01WJP300B00	30
MCPRW01WJP301B00	300
MCPRW01WJP302B00	3k
MCPRW01WJP330B00	33
MCPRW01WJP331B00	330
MCPRW01WJP332B00	3.3k
MCPRW01WJP333B00	33k
MCPRW01WJP391B00	390

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SIZE <b>A</b>	DWG. NO. <b>Ta-1173</b>	ELECTRONIC FILE <b>Ta-1173.dwg</b>	REV <b>A</b>
SCALE: NTS	U.O.M.: Millimeters	SHEET: 2 OF 2	