



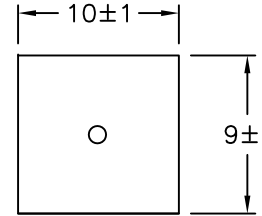
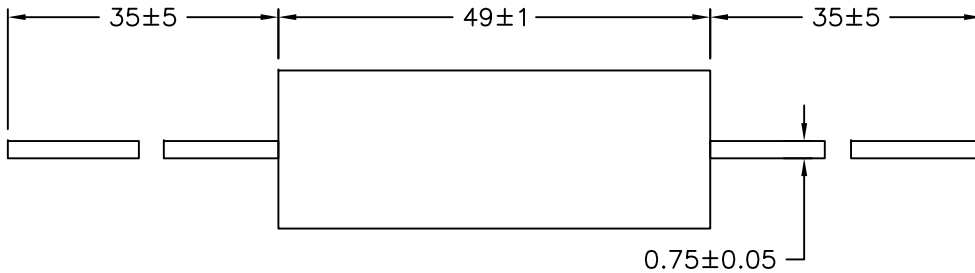
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SPC-F005.DWG

REVISIONS

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

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
2089	B	Corrected U.O.M.	JYC	4/6/10	JYC	4/6/10	JYC	4/6/10
1991	A	RELEASED	JN	05/15/09	JWM	05/15/09	JWV	05/15/09

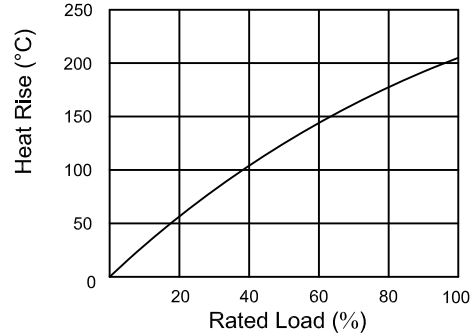
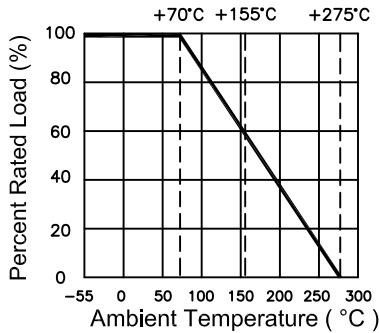


Performance Specification

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanical safe
- Product Type: Power Film Resistor
- Power Rating: 10 Watts
- Resistance Tolerance: ±5%

Derating Curve

Heat Rise Chart



Performance Specification

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

Mfg. P/N	Resistance (Ohms)
MCPRW0AWJP102B00	1k
MCPRW0AWJP103B00	10k
MCPRW0AWJP104B00	100k
MCPRW0AWJP113B00	11k
MCPRW0AWJP124B00	120k
MCPRW0AWJP134B00	130k
MCPRW0AWJP154B00	150k
MCPRW0AWJP164B00	160k
MCPRW0AWJP184B00	180k
MCPRW0AWJP204B00	200k
MCPRW0AWJP332B00	3.3k
MCPRW0AWJP392B00	3.9k
MCPRW0AWJP472B00	4.7k

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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: 10 watt (Power Film) Cement Fixed Resistors			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	Ta-1183	Ta-1183.DWG	B
SCALE:	NTS	U.O.M.: Millimeters	SHEET: 1 OF 1