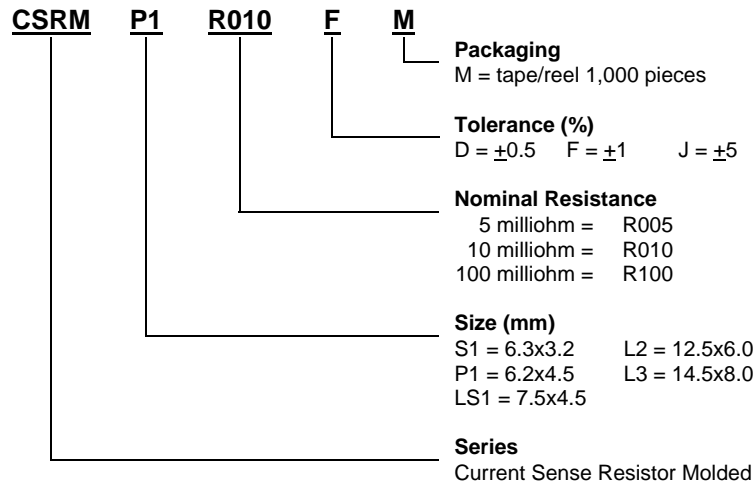


The content of this specification may change without notification 1/01/06

CSRM-S1/CSRM-P1/CSRM-L1S/CSRM-L2/CRSM-L3 Series

Custom solutions are available.

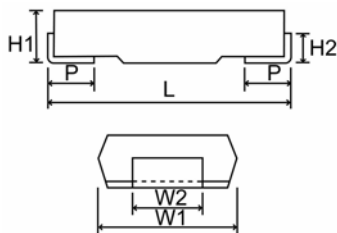
HOW TO ORDER



FEATURES

- Excellent for current sensing applications
- Flameproof UL94-V-0 molded polymer case
- Resistor has a height as small as 1mm
- Non-Inductive for improved frequency characteristics
- Resistance tolerance available as precise as $\pm 0.5\%$
- Compact and light weight ideal for surface mounting
- Applicable Specs: MIL-R-55342D & MIL-R-202
- RoHS Compliant

SCHEMATIC



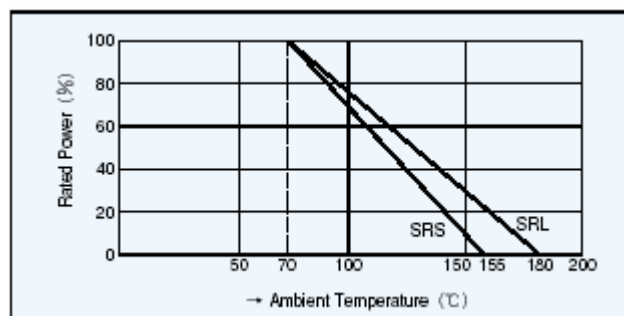
CHARACTERISTICS

Model	Power Rating	Dimensions (mm)						Resistance Range mΩ
		L ± 0.5	W1 ± 0.3	W2 ± 0.3	H1 ± 0.3	H2 ± 0.3	P ± 0.3	
CSRM-S1	1 watt	6.3	3.2	2.5	1.0	0.8	0.8	3 ~ 100
CSRM-P1	1 watt	6.2	4.5	2.5	1.0	0.6	1.2	3 ~ 100
CSRM-LS1	1 watt	7.5	4.5	2.5	2.0	1.1	1.2	3 ~ 510
CSRM-L2	2 watt	12.5	6.0	4.0	3.0	1.5	2.0	5 ~ 1,000
CSRM-L3	3 watt	14.5	8.0	6.0	3.0	1.5	2.0	8 ~ 1,800

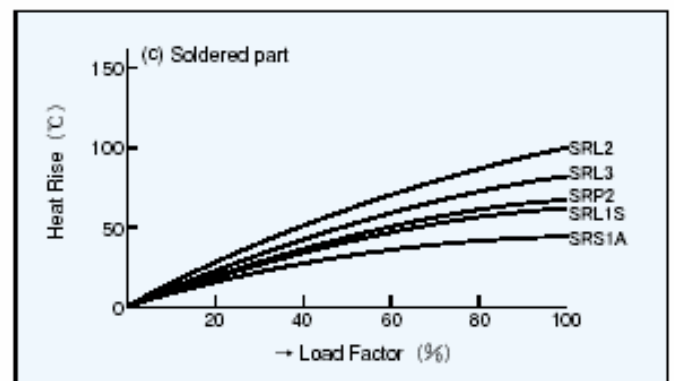
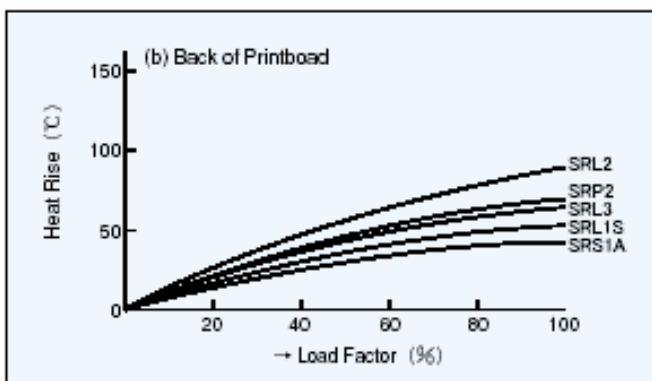
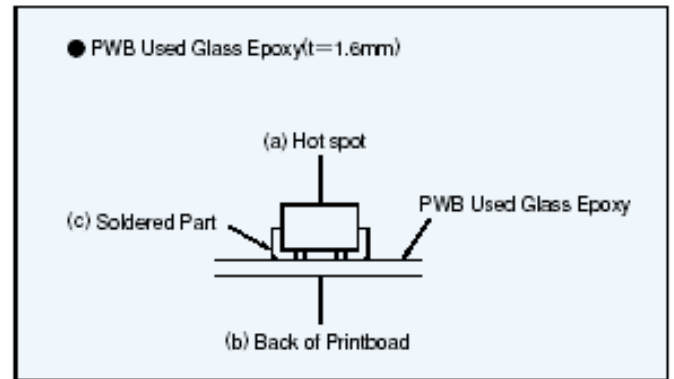
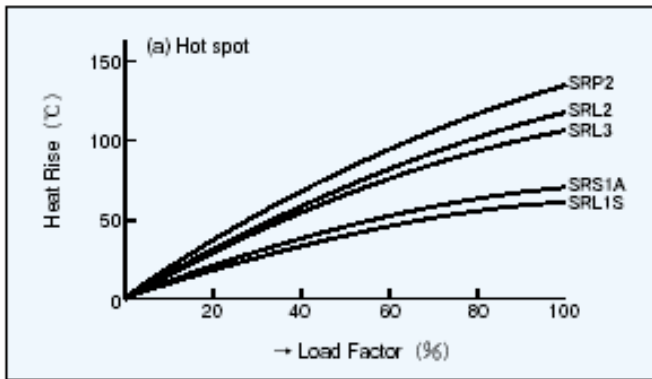
PERFORMANCE

Item	Test Method
Operating Temperature Range	-55°C ~ +155°C for CSRM-S and CSRM-P Series -55°C ~ +180°C for CSRM-L Series
Resistance Temperature Characteristics	± 100 ppm/°C
Overload	$\pm 0.5\%$ at rated power x5/second
Insulation Resistance	>100MΩ at DC 100V
Dielectric withstanding Voltage	$\pm 0.2\%$, AC500V for 1 minute
Resistance to Soldering Heat	$\pm 0.5\%$, 260°C for 5 seconds
Moisture Resistance	$\pm 0.5\%$ for 1,000 hours
Load Life	$\pm 1.0\%$ for 1,000 hours

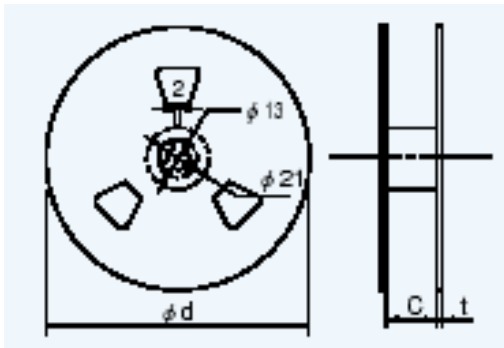
DERATING CURVE



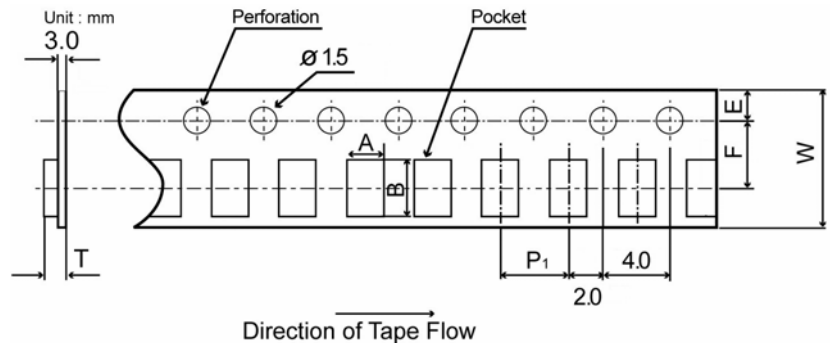
HEAT RISE CURVE



REEL SCHEMATIC



TAPE SCHEMATIC



PACKAGING SPECIFICATIONS

Model	Reel Specification (mm)			Embossed Tape Specifications (mm)						
	∅d	C	t	A	B	W	F	E	P ₁	T
CSRM-S1	180	13.0	1.2	3.7	6.8	12.0	5.5	1.75	8.0	1.5
CSRM-P1	180	13.0	1.2	5.0	6.9	12.0	5.5	1.75	8.0	1.4
CSRM-LS1	180	17.5	1.5	5.1	8.2	16.0	7.5	1.75	8.0	2.5
CSRM-L2	254	25.5	2.0	6.6	13.2	24.0	11.5	1.75	8.0	3.5
CSRM-L3	330	25.5	2.0	8.6	15.2	24.0	11.5	1.75	12.0	3.5

LABEL DESCRIPTION

One side surface of a reel is marked with a label with the following items of information.

1. Chip Resistor
2. Part Number
3. Tolerance
4. Quantity
5. Lot number for production month/year/suffix L*
6. Manufacturer's name or symbol

* The suffix "L" indicates that this item is lead free. As of September 2004, all new production items of the series CSRM are no longer containing tin/lead (SnPb) terminals; they are lead free and in compliance with Lead Free/RoHS.