



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-F008.DWG

REVISIONS

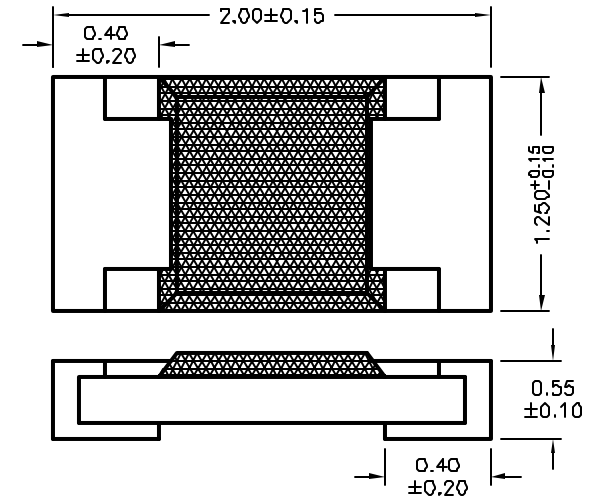
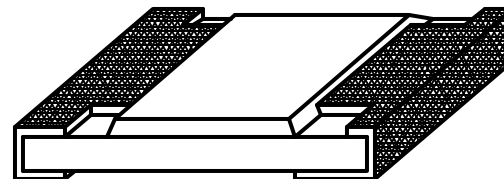
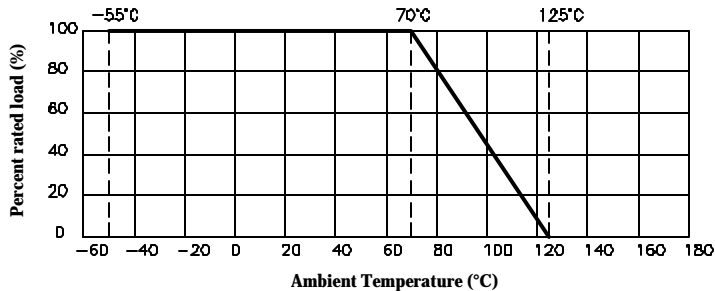
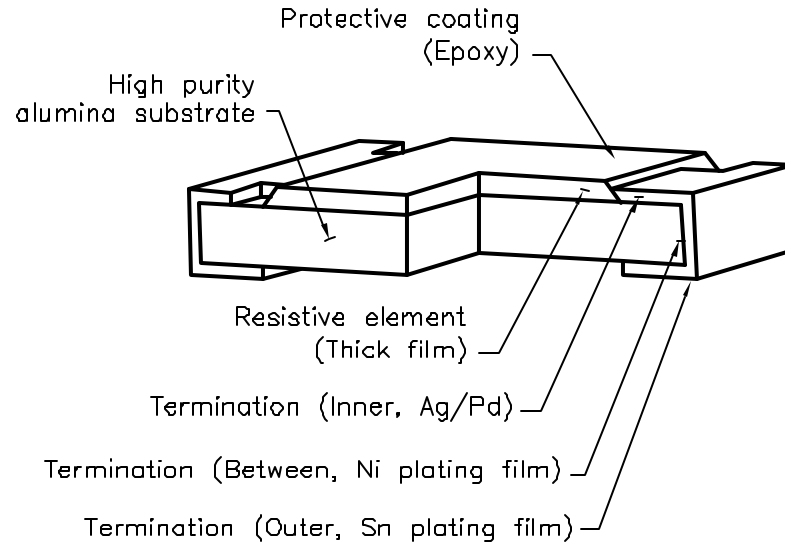
DOC. NO. SPC-F008 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1861	A	RELEASED	JN	02/27/09	JWM	02/27/09	JWM	02/27/09



Specifications:

- Power Rating: 1/8 Watt
- Tolerance: 1%
- Max. Working Voltage: 150 V
- Max. Overload Voltage: 500 V
- Temperature Range: -55°C ~ +125°C
- Ambient Temperature: 70°C
- Resistance Range: (See parts label)



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	02/27/09
CHECKED BY:	DATE:
JEFF MCVICKER	02/27/09
APPROVED BY:	DATE:
JEFF MCVICKER	02/27/09

DRAWING TITLE: RoHS Compliant Thick Film Chip Resistors, EIA Size 0805, 1/8 Watt			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	Ta-1077	Ta-1077.dwg	B
SCALE: NTS		U.O.M.: Millimeters	SHEET: 1 OF 4

Performance specification

Characteristics	Limits
Temperature coefficient	10~100 $\leq \pm 400$ PPM/°C 110~100M $\leq \pm 200$ PPM/°C >100 $\leq \pm 100$ PPM/°C (0201>100 $\leq \pm 200$ PPM/°C)
Short time overload	Resistance change rate is: $\pm 5\% \pm (2.0\% + 0.1 \Omega)$ Max. $\pm 1\% \pm (1.0\% + 0.1 \Omega)$ Max.
Insulation resistance	Min. 1,000 M ega Ω or more
Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down
Terminal bending	$\pm (1.0\% + 0.050)$ Max.
Temperature cycling	$\pm 5\% \pm (1.0\% + 0.050)$ Max. $\pm 1\% \pm (0.5\% + 0.050)$ Max.
Load life in humidity	$\pm 5\% \pm (3.0\% + 0.10)$ Max. $\pm 1\% \pm (1.0\% + 0.10)$ Max.
Load Life	$\pm 5\% \pm (3.0\% + 0.10)$ Max. $\pm 1\% \pm (1.0\% + 0.10)$ Max.
Soldering Heat	Resistance change rate is $\pm (1.0\% + 0.50 \Omega)$ Max.
Solderability	95 % coverage Min.

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
A

DWG. NO.

Ta-1077

ELECTRONIC FILE

Ta-1077.DWG

REV
A

Manufact Part #	Resistance
MC0805S8F1004T5E	1Mohm
MC0805S8F1053T5E	105kohm
MC0805S8F1072T5E	10.7kohm
MC0805S8F1103T5E	110kohm
MC0805S8F1132T5E	11.3kohm
MC0805S8F1152T5E	11.5kohm
MC0805S8F1153T5E	115kohm
MC0805S8F1181T5E	1.18kohm
MC0805S8F1201T5E	1.2kohm
MC0805S8F1210T5E	121ohm
MC0805S8F1213T5E	121kohm
MC0805S8F1240T5E	124ohm
MC0805S8F1241T5E	1.24kohm
MC0805S8F1243T5E	124kohm
MC0805S8F1302T5E	13kohm
MC0805S8F1303T5E	130kohm
MC0805S8F1331T5E	1.33kohm
MC0805S8F1333T5E	133kohm
MC0805S8F1373T5E	137kohm
MC0805S8F1402T5E	14kohm
MC0805S8F1432T5E	14.3kohm
MC0805S8F1471T5E	1.47kohm
MC0805S8F1582T5E	15.8kohm
MC0805S8F1650T5E	165ohm
MC0805S8F1651T5E	1.65kohm
MC0805S8F1690T5E	169ohm
MC0805S8F1691T5E	1.69kohm
MC0805S8F182JT5E	18.2ohm
MC0805S8F1820T5E	182ohm
MC0805S8F1870T5E	187ohm
MC0805S8F1962T5E	19.6kohm
MC0805S8F2051T5E	2.05kohm
MC0805S8F2102T5E	21kohm
MC0805S8F2151T5E	2.15kohm
MC0805S8F2213T5E	221kohm
MC0805S8F2370T5E	237ohm
MC0805S8F2371T5E	2.37kohm
MC0805S8F2372T5E	23.7kohm
MC0805S8F240JT5E	24ohm
MC0805S8F2430T5E	243ohm
MC0805S8F2431T5E	2.43kohm
MC0805S8F2493T5E	249kohm
MC0805S8F2550T5E	255ohm
MC0805S8F2552T5E	25.5kohm
MC0805S8F2670T5E	267ohm

Manufact Part #	Resistance
MC0805S8F2702T5E	27kohm
MC0805S8F274JT5E	27.4ohm
MC0805S8F2740T5E	274ohm
MC0805S8F2741T5E	2.74kohm
MC0805S8F2802T5E	28kohm
MC0805S8F2942T5E	29.4kohm
MC0805S8F3161T5E	3.16kohm
MC0805S8F3241T5E	3.24kohm
MC0805S8F3480T5E	348ohm
MC0805S8F3481T5E	3.48kohm
MC0805S8F3482T5E	34.8kohm
MC0805S8F3570T5E	357ohm
MC0805S8F3651T5E	3.65kohm
MC0805S8F3652T5E	36.5kohm
MC0805S8F3743T5E	374kohm
MC0805S8F3831T5E	3.83kohm
MC0805S8F3832T5E	38.3kohm
MC0805S8F3901T5E	3.9kohm
MC0805S8F3922T5E	39.2kohm
MC0805S8F402JT5E	40.2ohm
MC0805S8F4122T5E	41.2kohm
MC0805S8F4301T5E	4.3kohm
MC0805S8F4320T5E	432ohm
MC0805S8F4421T5E	4.42kohm
MC0805S8F475JT5E	47.5ohm
MC0805S8F4753T5E	475kohm
MC0805S8F4870T5E	487ohm
MC0805S8F4871T5E	4.87kohm
MC0805S8F4872T5E	48.7kohm
MC0805S8F5110T5E	511ohm
MC0805S8F5361T5E	5.36kohm
MC0805S8F5600T5E	560ohm
MC0805S8F5901T5E	5.9kohm
MC0805S8F5902T5E	59kohm
MC0805S8F604JT5E	60.4ohm
MC0805S8F6041T5E	6.04kohm
MC0805S8F6200T5E	620ohm
MC0805S8F6341T5E	6.34kohm
MC0805S8F6652T5E	66.5kohm
MC0805S8F6802T5E	68kohm
MC0805S8F681JT5E	68.1ohm
MC0805S8F6812T5E	68.1kohm
MC0805S8F6813T5E	681kohm
MC0805S8F6981T5E	6.98kohm
MC0805S8F7321T5E	7.32kohm

Manufact Part #	Resistance
MC0805S8F7322T5E	73.2kohm
MC0805S8F787JT5E	78.7ohm
MC0805S8F7870T5E	787ohm
MC0805S8F7871T5E	7.87kohm
MC0805S8F8060T5E	806ohm
MC0805S8F820JT5E	82ohm
MC0805S8F8200T5E	820ohm
MC0805S8F825JT5E	82.5ohm
MC0805S8F8871T5E	8.87kohm
MC0805S8F909JT5E	90.9ohm
MC0805S8F9090T5E	909ohm
MC0805S8F9092T5E	90.9kohm
MC0805S8F9311T5E	9.31kohm
MC0805S8F9531T5E	9.53kohm
MC0805S8F9761T5E	9.76kohm
MC0805S8F1621T5E	1.62kohm
MC0805S8F9102T5E	91kohm
MC0805S8F0000T5E	0ohm
MC0805S8F100JT5E	10ohm
MC0805S8F1000T5E	100ohm
MC0805S8F1001T5E	1kohm
MC0805S8F1002T5E	10kohm
MC0805S8F1101T5E	1.1kohm
MC0805S8F1102T5E	11kohm
MC0805S8F1200T5E	120ohm
MC0805S8F1202T5E	12kohm
MC0805S8F1203T5E	120kohm
MC0805S8F1211T5E	1.21kohm
MC0805S8F1212T5E	12.1kohm
MC0805S8F1242T5E	12.4kohm
MC0805S8F1272T5E	12.7kohm
MC0805S8F1300T5E	130ohm
MC0805S8F1472T5E	14.7kohm
MC0805S8F150JT5E	15ohm
MC0805S8F1500T5E	150ohm
MC0805S8F1501T5E	1.5kohm
MC0805S8F1502T5E	15kohm
MC0805S8F1503T5E	150kohm
MC0805S8F1542T5E	15.4kohm
MC0805S8F1622T5E	16.2kohm
MC0805S8F1652T5E	16.5kohm
MC0805S8F1692T5E	16.9kohm
MC0805S8F1742T5E	17.4kohm
MC0805S8F1782T5E	17.8kohm
MC0805S8F1800T5E	180ohm

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
A

DWG. NO.

Ta-1077

ELECTRONIC FILE

Ta-1077.DWG

REV

A

Manufact Part #	Resistance
MC0805S8F1801T5E	1.8kohm
MC0805S8F1802T5E	18kohm
MC0805S8F1821T5E	1.82kohm
MC0805S8F1822T5E	18.2kohm
MC0805S8F1872T5E	18.7kohm
MC0805S8F1961T5E	1.96kohm
MC0805S8F200JT5E	20ohm
MC0805S8F200T5E	200ohm
MC0805S8F2001T5E	2kohm
MC0805S8F2002T5E	20kohm
MC0805S8F2003T5E	200kohm
MC0805S8F2152T5E	21.5kohm
MC0805S8F2200T5E	220ohm
MC0805S8F2201T5E	2.2kohm
MC0805S8F221JT5E	22.1ohm
MC0805S8F2210T5E	221ohm
MC0805S8F2211T5E	2.21kohm
MC0805S8F2212T5E	22.1kohm
MC0805S8F2400T5E	240ohm
MC0805S8F249JT5E	24.9ohm
MC0805S8F2490T5E	249ohm
MC0805S8F2491T5E	2.49kohm
MC0805S8F2492T5E	24.9kohm
MC0805S8F2700T5E	270ohm
MC0805S8F2701T5E	2.7kohm
MC0805S8F2742T5E	27.4kohm
MC0805S8F2801T5E	2.8kohm
MC0805S8F3000T5E	300ohm
MC0805S8F3001T5E	3kohm
MC0805S8F3002T5E	30kohm
MC0805S8F3010T5E	301ohm
MC0805S8F3011T5E	3.01kohm
MC0805S8F3012T5E	30.1kohm
MC0805S8F3013T5E	301kohm
MC0805S8F3162T5E	31.6kohm
MC0805S8F330JT5E	33ohm
MC0805S8F3300T5E	330ohm
MC0805S8F3301T5E	3.3kohm
MC0805S8F3302T5E	33kohm
MC0805S8F332JT5E	33.2ohm
MC0805S8F3321T5E	3.32kohm
MC0805S8F3322T5E	33.2kohm
MC0805S8F3650T5E	365ohm
MC0805S8F3741T5E	3.74kohm
MC0805S8F3902T5E	39kohm

Manufact Part #	Resistance
MC0805S8F3921T5E	3.92kohm
MC0805S8F4020T5E	402ohm
MC0805S8F4021T5E	4.02kohm
MC0805S8F4022T5E	40.2kohm
MC0805S8F470JT5E	47ohm
MC0805S8F4700T5E	470ohm
MC0805S8F4702T5E	47kohm
MC0805S8F4701T5E	4.7kohm
MC0805S8F4750T5E	475ohm
MC0805S8F4751T5E	4.75kohm
MC0805S8F4752T5E	47.5kohm
MC0805S8F499JT5E	49.9ohm
MC0805S8F4990T5E	499ohm
MC0805S8F4991T5E	4.99kohm
MC0805S8F4992T5E	49.9kohm
MC0805S8F4993T5E	499kohm
MC0805S8F510JT5E	51ohm
MC0805S8F5100T5E	510ohm
MC0805S8F5101T5E	5.1kohm
MC0805S8F5102T5E	51kohm
MC0805S8F511JT5E	51.1ohm
MC0805S8F5111T5E	5.11kohm
MC0805S8F5112T5E	51.1kohm
MC0805S8F5602T5E	56kohm
MC0805S8F5621T5E	5.62kohm
MC0805S8F5622T5E	56.2kohm
MC0805S8F6040T5E	604ohm
MC0805S8F6042T5E	60.4kohm
MC0805S8F6191T5E	6.19kohm
MC0805S8F6201T5E	6.2kohm
MC0805S8F6491T5E	6.49kohm
MC0805S8F6650T5E	665ohm
MC0805S8F6801T5E	6.8kohm
MC0805S8F6810T5E	681ohm
MC0805S8F6811T5E	6.81kohm
MC0805S8F7150T5E	715ohm
MC0805S8F750JT5E	75ohm
MC0805S8F7500T5E	750ohm
MC0805S8F7501T5E	7.5kohm
MC0805S8F7502T5E	75kohm
MC0805S8F8061T5E	8.06kohm
MC0805S8F8250T5E	825ohm
MC0805S8F8251T5E	8.25kohm
MC0805S8F9091T5E	9.09kohm

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
A

DWG. NO.

Ta-1077

ELECTRONIC FILE

Ta-1077.DWG

REV
A