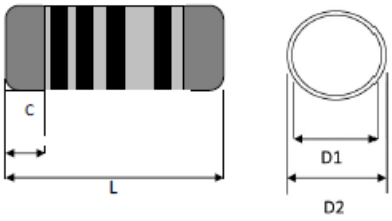
METAL FILM MELF RESISTOR

MEMF TYPE

FEATURES

- SMD style metal resistor.
- High accuracy guaranteed (tolerance±0.1% & T.C.R.±5PPM/℃)
- Free direction for mounting due to cylindrical design.
- Electrode strength is higher than flat chip resistor.
- Lower current noise than thick film flat chip resistor.
- Suitable for reflow, flow and iron soldering.



DIMENSIONS

Unit : mm

TYPE	POWER	L	C MIN.	D1	D2 MAX.
MEMF-12	1/8W	2.0±0.1	0.30	1.25±0.05	1.35
MEMF-25S	1/4W	3.5±0.2	0.50	1.40±0.15	1.55
MEMF-50S	1/2W	5.9±0.2	1.00	2.20±0.20	2.40
MEMF-50	1/2W	8.5±0.2	1.50	3.20±0.20	3.40
MEMF-100SS	1W	5.9±0.2	1.00	2.20±0.20	2.40
MEMF-100S	1W	8.5±0.2	1.50	3.20±0.20	3.40
MEMF-200SS	2W	8.5±0.2	1.50	3.20±0.20	3.40

RATINGS

TYPE		MEMF-12	MEMF-25S	MEMF-50S	MEMF-50	MEMF-100SS	MEMF-100S	MEMF-200SS
POWER RATING		1/8W	1/4W	1/2W	1/2W	1W	1W	2W
MAX. WORKING VOLTAGE		150V	200V	250V	350V	350V	350V	350V
MAX.OVERLOAD VOLTAGE		300V	400V	500V	700V	700V	700V	700V
OPERATING TEMP. RANGE		−55℃～+155℃						
TEMPERATURE COEFFICIENT	±1%	±25ppm/℃ ; ±50ppm/℃ ; ±100ppm/℃						
	±0.1% ±0.25% ±0.5%	±5ppm/℃ ; ±10ppm/℃ ; ±15ppm/℃ ; ±25ppm/℃						
RESISTANCE RANGE	±1%	10Ω−1M	1Ω−4.7M			0.1Ω−10M		
	±0.1% ±0.25% ±0.5%	100Ω−560K						

CHARACTERISTICS

TEST	PERFORMANCE REQUIREMENTS	TEST METHOD (JIS−C−5201−1)
T.C.R	Within specified T.C.R	+25℃/−55℃ and +25℃/+125℃
SOLDERABILITY	More than 95% of the total area of the electrode part	Temperature of soldering : 245±5℃, Time : 3±0.5 sec
RESISTANCE TO SOLVENT	Epoxy insulation coating can not be peeled	There are 3 circles, each circle takes 1 min
RESISTANCE TO SOLDERING HEAT	The change of resistance value shall be within±(0.5%+0.05Ω)	Temperature : 260℃ ±5℃, Dipping time : 10±1 sec
SHORT TIME OVERLOAD	The change of the resistance value shall be within±(0.5%+0.05Ω)	$V=\sqrt{RxPx2.5}$ for 5 sec
OVERLOAD	Within specified tolerance	$V=\sqrt{RxPx3}$ for 2.5 sec
LOAD LIFE IN HUMIDITY	The change of the resistance value shall be within±(1%+0.05Ω)	40℃ ±2℃, 90%～95% RH, 1.5hr ON/0.5hr OFF cycle, total test 1,000hrs
LOAD LIFE	The change of the resistance value shall be within±(3%+0.05Ω)	Constant temperature chamber of 70℃ ±2℃, DC 1.5hr ON/0.5hr OFF cycle, for 1,000±48hrs