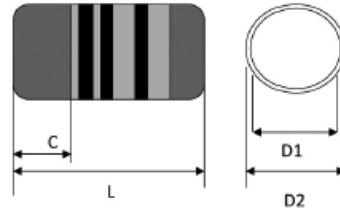


CARBON FILM MELF RESISTOR

MECF TYPE

FEATURES

- SMD style carbon resistor.
- Free direction for mounting due to cylindrical design.
- High solderability due to special plated electrode.
- 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.
MECF-12	1/8W	3.5±0.2	0.50	1.40±0.15	1.55
MECF-25S	1/4W	3.5±0.2	0.50	1.40±0.15	1.55
MECF-50S	1/2W	5.9±0.2	1.00	2.20±0.20	2.40
MECF-50	1/2W	8.5±0.2	1.50	3.20±0.20	3.40
MECF-100SS	1W	5.9±0.2	1.00	2.20±0.20	2.40
MECF-100S	1W	8.5±0.2	1.50	3.20±0.20	3.40
MECF-200SS	2W	8.5±0.2	1.50	3.20±0.20	3.40

RATINGS

TYPE	MECF-12	MECF-25S	MECF-50S	MECF-50	MECF-100SS	MECF-100S	MECF-200SS
POWER RATING	1/8W	1/4W	1/2W	1/2W	1W	1W	2W
MAX. WORKING VOLTAGE	150V	200V	300V	350V	350V	350V	350V
MAX.OVERLOAD VOLTAGE	200V	400V	600V	700V	700V	700V	700V
OPERATING TEMP. RANGE	-55°C ~ +155°C						
RESISTANCE RANGE	1Ω - 1M						

CHARACTERISTICS

TEST	PERFORMANCE REQUIREMENTS					TEST METHOD (JIS-C-5201-1)	
T.C.R. (PPM)	TYPE	TCR	0~-350	0~-600	0~-1000	0~-1500	+25°C/-55°C and +25°C/+125°C
	1/4W UP		10K OHM BELOW	11K~150K	160K~2M2	-	
	1/8W		1K OHM BELOW	1K1~47K	51K~470K	510K~1M	
SOLDERABILITY	More than 95% of the total area of the electrode part					Temperature of soldering : 245±5°C, 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 ±(1%+0.05Ω)					Temperature : 260°C ±5°C, Dipping time : 10±1 sec	
SHORT TIME OVERLOAD	The change of the resistance value shall be within ±(0.5%+0.05Ω)					$V = \sqrt{R \times P \times 2.5}$ for 5 sec	
OVERLOAD	Within specified tolerance					$V = \sqrt{R \times P \times 3}$ for 2.5 sec	
LOAD LIFE IN HUMIDITY	The change of the resistance value shall be within ±(1%+0.05Ω)					40°C ±2°C, 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 ±(2%+0.05Ω)					Constant temperature chamber of 70°C ±2°C, DC 1.5hr ON/0.5hr OFF cycle, for 1,000±48hrs	