

General Type

Normal & Miniature Style [MCF Series]



INTRODUCTION

The MCF Series Melf Carbon Film Resistors are manufactured by coating a homogeneous film of pure carbon on high grade ceramic rods. SMD enabled structure.

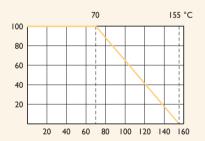
FATURES

Power Rating	1/6W, 1/4W, 0.4W, 1/2W, 0.6W, 1W			
Resistance Tolerance	±2%, ±5%			
T.C.R.	see Table			

DFRATING CURVE

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.

Rated Load (%)



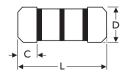
Ambient Temperature (°C)

TARIE I TEMPERATI IRE COFFEICIENT

STYLE	MAX. VALUE OF TEMP. COEFFICIENT PPM/°C						
MCF-12, MCF25S, MCF204	under ΙΚΩ	Ω ΙΚΙΩ -47ΚΩ 5ΙΚΩ -470ΚΩ		510ΚΩ -ΙΜΩ			
	0 to -350	0 to -600	0 to -1,000	0 to -1,500			
MCF-25, MCF50S, MCF207,	under I0KΩ	ΙΙΚΩ -Ι50ΚΩ	I60KΩ -2M2Ω	-			
MCF-50, MCF1WS	0 to -350	0 to -600	0 to -1,000				

DIMENSIONS

Unit: mm



STYLE		DIMENSION				
Normal	Miniature	L	D	C Min.		
MCF-12	MCF25S / MCF204	3.5±0.2	1.4±0.15	0.5		
MCF-25	MCF50S / MCF207	5.9±0.2	2.2±0.1	0.5		
MCF-50	MCFIWS	8.5±0.2	3.2±0.2	0.5		

Note:			

ELECTRICAL CHARACTERISTICS

STYLE	MCF-12	MCF25S	MCF204	MCF-25	MCF50S	MCF207	MCF-50	MCFIWS
Power Rating at 70°C	1/6W	1/4W	0.4W	1/4W	1/2W	0.6W	1/2W	IW
Maximum Working Voltage	200V	250V		300V			350V	
Maximum Overload Voltage	400V	500V		600V			700V	
Voltage Proof on Insulation	200V	200V		500V			700V	
Resistance Range		10Ω - $1M\Omega$ & 0Ω for E24 series value						
Operating Temp. Range	-55°C to +1	-55°C to +155°C						
Temperature Coefficient	see Table I							

Note: Special value is available on request

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	IEC 60115-1 4.13	2.5 times RCWV for 5 sec. (Not more than maximum Overload Voltage)	±1.0%+0.05Ω
Voltage Proof on Insulation	IEC 60115-1 4.7	In V-Block for 60 sec., test voltage as above table	No Breakdown
Temperature Coefficient	IEC 60115-1 4.8	Between -55°C to +155°C	By type
Insulation Resistance	IEC 60115-1 4.6	in V-block for 60 Sec.	>10,000MΩ
Solderability	IEC 60115-1 4.17	245±5°C for 3±0.5 Sec.	95% Min. coverage
Solvent Resistance of Marking	IEC 60115-1 4.30	IPA for 5±0.5 Min, with ultrasonic	No deterioration of coatings and markings
Periodic-pulse Overload	IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±1.0%+0.05Ω
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV	±5.0%+0.1Ω
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV (or Umax., Whichever less) for 1,000 Hr. (1.5Hr.on, 0.5Hr. Off)	±3.0%+0.1Ω
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇒ Room Temp. ⇒ +155°C ⇒ Room Temp. (5 cycles)	±0.75%+0.05Ω
Resistance to Soldering Heat	IEC 60115-1 4.18	260±3°C for I0±1 Sec., immersed to a point 3±0.5mm from the body	±1.0%+0.05Ω

单击下面可查看定价,库存,交付和生命周期等信息

>>Yageo(国巨)