

RCMM

Data sheet 325E

02
05
1

moulded metal film resistor

0,25W to 1W at 70°C

NF C 83230 (RC21U - 31U - 41U)
CECC 40100 (RC21 - RC31)
MIL-R-22684B



- HIGH INSULATION > 10⁷MΩ
- EXCELLENT RELIABILITY
- GREAT MECHANICAL STRENGTH

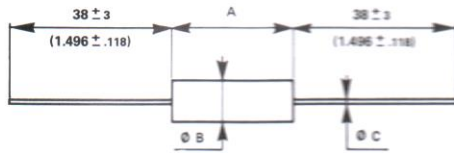


Table 1

Dimensions Series	A	φ B	φ C	Unit weight in g
RCMM02	6,5±0,2 (.256±.007)	2,5 ⁻⁰ _{-0,2} (.098 ⁻⁰ _{-.007})	0,6 (.023)	0,26
RCMM05	10,2±0,2 (.401±.007)	3,65±0,1 (.114±.004)	0,6 (.023)	0,46
RCMM1	16±0,5 (.630±.019)	6,2±0,2 (.244±.007)	0,8 (.031)	1,30

SPECIFICATIONS

Table 2

SERNICE SERIES	▲ RCMM02	▲ RCMM05	RCMM1
NFC 93230	RC21U	RC31U	RC41U
CECC 40100 (NFC 83230)	RC21	RC31	—
MIL-R-22684B	RLR07	RLR20	RLR32
POWER RATING AT 70°C	0,25W	0,50W	1W
RESISTANCE VALUE RANGE IN RELATION TO TOLERANCE	±5%	1Ω... 330KΩ E24	1Ω... 1MΩ E24
	±2%	1Ω... 332KΩ E48	1Ω... 1MΩ E48
MAXIMUM VOLTAGE	300 V	350 V	400 V
CRITICAL RESISTANCE	—	245KΩ	160KΩ
TEMPERATURE COEFFICIENT	RATED in the range -55°C + 155°C	K2 ≤ ± 100 ppm/°C	
	TYPICAL in the range -10°C + 70°C	≤ ± 50 ppm/°C	
INSULATION RESISTANCE (typical)	≥ 10 ⁷ MΩ (500 Vcc)		
VOLTAGE COEFFICIENT	≤ 10 ppm/Volt		
ENVIRONMENTAL SPECIFICATIONS	-65°C / + 155°C / 56 days		

▲ Undergoes the Centralized Quality Control

▲ Undergoes European Quality insurance system (CECC)

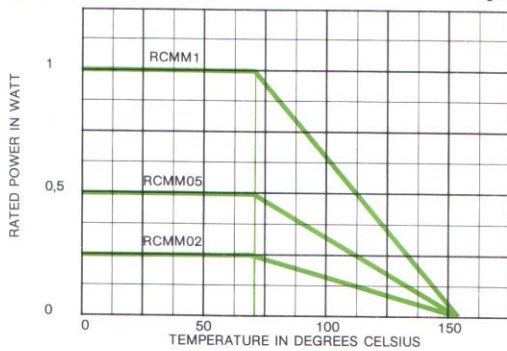
PERFORMANCES

Table 3

NF C 83230 - CECC 40100			TYPICAL VALUES AND DRIFTS
TESTS	CONDITIONS	REQUIREMENTS	
LOAD LIFE AT MAX. TEMPERATURE OF THE CATEGORY	1000 hours at 125°C 50% of Pn	1% Insulation resist. > 10 ³ MΩ	0,75% or 0,05Ω Insulation resist. 10 ⁶ MΩ
SHORT TIME OVERLOAD	2,5 Um/5s limited to 2 Un	0,25%	0,2% or 0,05Ω
DAMP HEAT HUMIDITY (STEADY STATE)	56 days with low load	1% Insulation resist. > 10 ³ MΩ	0,5% or 0,05Ω Insulation resist. 10 ⁶ MΩ
RAPID TEMPERATURE CHANGE	-55°C +125°C	0,25%	0,1% or 0,05Ω
CLIMATIC SEQUENCE	-55°C +125°C severity 1	0,5% Insulation resist. > 10 ³ MΩ	0,1% or 0,05Ω Insulation resist. 10 ⁶ MΩ
TERMINAL STRENGTH	Traction - Torsion - 2 bends	0,25%	0,05% or 0,05Ω
VIBRATIONS	severity 55B	0,25%	0,05% or 0,05Ω
SOLDERING (THERMAL SHOCK)	+260° 10s	0,1%	0,1% or 0,05Ω
LOAD LIFE	cycle 90'/30' 1000 h at Pn at 70°C	1% Insulation resist. > 10 ³ MΩ	0,5% or 0,05Ω Insulation resist. 10 ⁶ MΩ
SHELF LIFE	1 year ambient temperature	-	0,1% or 0,05Ω

POWER RATING CHART

Fig. 2



TERMINALS

RCMM are normally fitted with tinned copper leads. On request RCMM resistors can be fitted with solderable/weldable tinned copper leads, conforming to type C of MIL-STD 1276B specification. Please consult SFERNICE.

PACKING

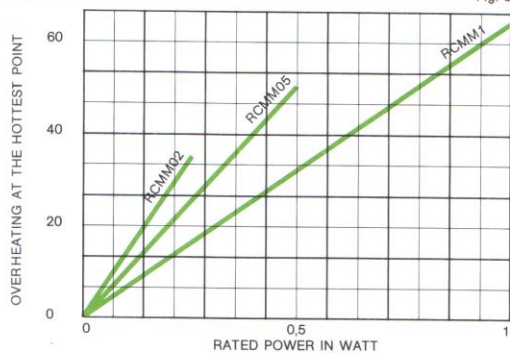
Standard packing is in plastic bag. Taping is available on request for a minimum of 1000 units by value.

MARKING

Nominal ohmic values and tolerances are colour coded with 4 bands for E24 series and 5 for the E48. On request and for large quantities marking can be done in clear. Please consult SFERNICE.

HEAT RISE

Fig. 3



ORDERING PROCEDURE

