

Dimensions in mm

#### **SPECIFICATIONS**

### MECHANICAL

MECHANICAL TRAVEL... 270° ±10° OPERATING TORQUE (max. Ncm)... 1,5 END STOP TORQUE (Ncm)... 3,5 UNIT WEIGHT (max. g)... 0,15

### ELECTRICAL

(2)

0	RESISTIVE ELEMENT cermet	
	ELECTRICAL TRAVEL 220° ±15°	
	RESISTANCE RANGE 10Ω 1 MΩ	
	Standard series 1 - 2 - 5	
	TOLERANCE standard ±20%	
	POWER RATING linear 0,2 W at 85°C or	
	0,25 W at 70°C	
	logarithmic not applicable	
	TYPICAL TEMP. COEFFICIENT (for $Rn \ge 100 \Omega$ ) 50 ppm/°C	
	LIMITING ELEMENT VOLTAGE (linear law) 200 V	
	CONTACT RESISTANCE VARIATION 2 % or 3 $\Omega$	
	END RESISTANCE (typical) 0,1 % or 3 $\Omega$	
	DIELECTRIC STRENGTH (RMS) 1000 V	
55°C	INSULATION RESISTANCE 106 MO2	
56	SPECIFICATION in accordance with	
leaning IP67	NFC 83251	
	or CECC 41100	

### **ENVIRONMENTAL**

TEMPERATURE RANGE... -55°C +15 CLIMATIC CATEGORY... 55 / 125 / 5 SEALING... enables cle

## PERFORMANCES

PERFORMANCES Table 1						
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS $\frac{\Delta}{RT}$ $\frac{\Delta}{R1-2}$ (%) $\frac{\Delta}{R1-2}$				
LOAD LIFE	1000 hours at rated power 90'/30' - ambient temperature +85°C	$\pm 2\%$ $\pm 3\%$ Contact resistance variation : $\Delta R < 1\%$ Rn				
MOISTURE RESISTANCE	MIL STD 202 Method 106 10 cycles of 24 hours constituted with damp heat - cold - vibrations	$\pm$ 2 % $\pm$ 3 % Dielectric strength : 1000 V RMS Insulation resistance : > 104 M\Omega				
LONG TERM DAMP HEAT	Temperature 40°C - RH 90-95 % 10% rated power 56 days	$\pm$ 2 % $\pm$ 3 % Dielectric strength : 1000 V RMS Insulation resistance : > 104 M $\Omega$				
THERMAL SHOCKS	55°C to +125°C - 5 cycles	$\pm 1\%$ $\frac{\Delta V_{1-2}}{V_{1-3}} \le \pm 2\%$				
ROTATIONAL LIFE (electrical and mechanical)	100 cycles - rated power	± 3 %				
SHOCKS	MIL STD 202 Method 213/1 100 g - 6 ms 3 successive shocks in 3 directions	$\pm 1\% \qquad \qquad \frac{\Delta V_{1-2}}{V_{1-3}} \le \pm 1\%$				
VIBRATIONS	MIL STD 202 Method 204/D 20 g - 12 hours	$\pm 1\%$ $\frac{\Delta V_{1-2}}{V_{1-3}} \le \pm 1\%$				

		LINEAR LAW		
Standard resistance values	Max. power at 85°C	Max. working voltage	Max. cur. through element	T.C. −55°C +125°C
Ω	w	V	mA	ppm/ºC
10 20 50	0,20	1,41 2 3,16	141 100 63	0 +200
100 200 500 1 k 2 k 5 k 10 k 20 k 100 k 100 k 200 k 500 k 100 k	0,2 0,2 0,2 0,08 0,04	4,47 6,32 10 14,1 20 31,6 44,7 63,2 100 141 200 200 200	45 32 20 14 10 6,3 3,2 2 4, 1 0,4 1, 0,2	±100

# MARKING

SFERNICE trademark, ohmic value, manufacturing date. The ohmic value is indicated by a 3 figures code, the first two are the significant figures, the third one is the multiplier.

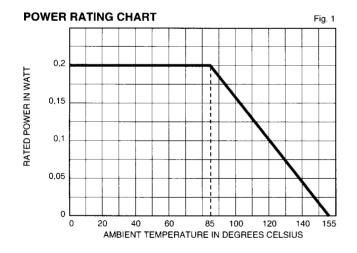
Example :  $100 = 10 \Omega$  $101 = 100 \ \Omega$  $102 = 1000 \Omega$ 

$$503 = 50000 \Omega.$$

The manufacturing date is indicated by four digits, the first two for the year, the others for the week.

# PACKAGING

- In bulk (plastic box of 250 pieces).



## **ORDERING PROCEDURE**





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