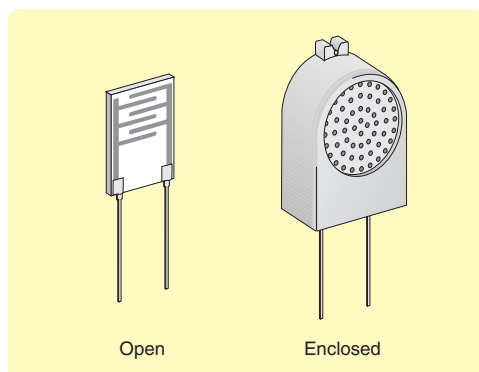


ESI type SRHR

Miniature sensors whose ac resistance (impedance) decreases as relative humidity rises. They consist of an RH sensitive material deposited on a ceramic substrate which offers high sensitivity and reliability in a small package. Choice of resistance, with terminations set at 5.08mm pitch on the 23k Ω version and 2.54mm on the 33k Ω . Option of open construction or housed in a moulded case.



- ◆ High sensitivity & reliability
- ◆ Fast response time
- ◆ High resistance to chemicals & contaminants
- ◆ Choice of resistance
- ◆ Option of open construction or enclosed in a moulded cream coloured body

Specification

Characteristic	Figure		Conditions
	SRHR-233(C)	SRHR-333(C)	
Humidity range	30 to 90%RH	20 to 95%RH	
AC resistance (see table)	23k Ω	33k Ω	60%RH, 25°C
Rated voltage (ac)	1.4Vpk		
Rated power (ac)	0.26mWpk	0.22mWpk	
Frequency range	50Hz to 1kHz		
Accuracy	$\pm 3\%$ RH		60%RH, 25°C
Hysteresis	$\leq 3\%$ RH	$\leq 2\%$ RH	between 40% and 80%RH
Temp. dependence	0.5%RH/°C		
Response time	< 60 sec.		
Oper. temp. range	0°C to +60°C		

AC Resistance Value (at 25°C)		
RH	SRHR-233(C)	SRHR-333(C)
30%	920k Ω	900k Ω
40%	220k Ω	270k Ω
50%	66k Ω	81k Ω
60%	23kΩ	33kΩ
70%	9.6k Ω	13k Ω
80%	4.2k Ω	5.3k Ω
90%	1.9k Ω	2.2k Ω

Resistance
at 60%RH

Pitch

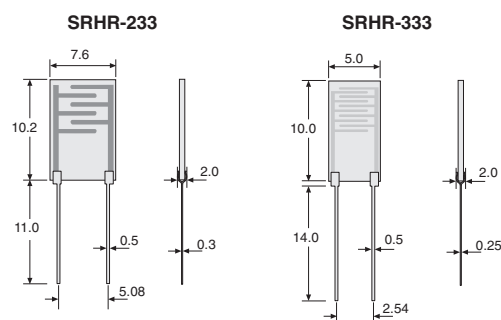
23k Ω 5.08mm
33k Ω 2.54mm

Manf. Part No. &
anglia Order Code
Open Enclosed

SRHR-233 SRHR-233C
SRHR-333 SRHR-333C

Dimensions (mm)

OPEN



ENCLOSED

SRHR-233C/333C

