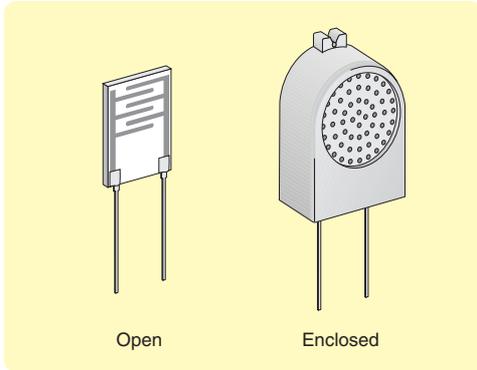


ESI type SRHR

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 23kΩ version and 2.54mm on the 33kΩ. 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

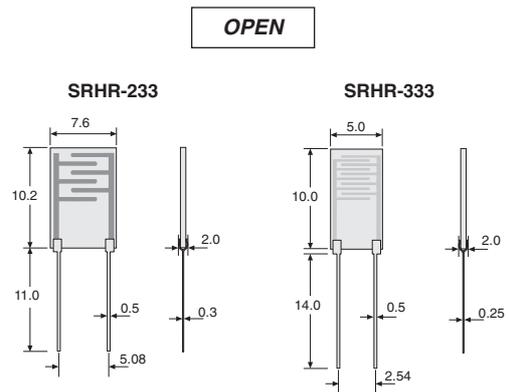
Characteristic	Figure		Conditions
	SRHR-233(C)	SRHR-333(C)	
Humidity range	30 to 90%RH	20 to 95%RH	
AC resistance (see table)	23kΩ	33kΩ	60%RH, 25°C
Rated voltage (ac)	1.4Vpk		
Rated power (ac)	0.26mWpk	0.22mWpk	
Frequency range	50Hz to 1kHz		
Accuracy	±3%RH		60%RH, 25°C
Hysteresis	≤3%RH	≤2%RH	between 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%	920kΩ	900kΩ
40%	220kΩ	270kΩ
50%	66kΩ	81kΩ
60%	23kΩ	33kΩ
70%	9.6kΩ	13kΩ
80%	4.2kΩ	5.3kΩ
90%	1.9kΩ	2.2kΩ

Resistance at 60%RH	Pitch
23kΩ	5.08mm
33kΩ	2.54mm

Manf. Part No. & Anglia Order Code	
Open	Enclosed
SRHR-233	SRHR-233C
SRHR-333	SRHR-333C

Dimensions (mm)



ENCLOSED

SRHR-233C/333C

