



MAXWELLON 8723X

9kHz~6GHz/ 10MHz~ 8GHz/ 50MHz~26.5GHz/ 50MHz~40GHz
Continuous Wave USB Power Sensor
2023

Based on a USB 2.0 full-speed/high-speed adaptive interface, 8723X Series is a diode detector USB power sensor. An internal high-performance processing chip and a variety of calibration and compensation techniques makes the sensor has a wide frequency range and large power dynamic range. It can be connected to a computer or other electronic measuring instruments use, easy to set up a power test system, particularly useful for field and other low-cost production line testing and power testing

■ Key Feature

- An accurate continuous wave signal absolute power measurement function
- With internal and external zeroing function
- Single sensor size, light weight, easy to carry
- Support USB programmable function, Interchangeable Virtual Instrument (IVI) drivers, support USB TMC (USB Test & Measurement Class) protocol
- Compatible with other USB interface on a computer or measuring instrument, it can be used to quickly set up microwave power measurement system

■ Applications

8723X Series USB power sensors can be connected to computer to implement power microwave test function, can be connected with measuring instruments to achieve power microwave and millimeter

Connected to a computer

Be equipped with a USB host interface to the computer, by using a virtual control panel to achieve power microwave test function; Be connected with an automatic test system host computer, through commands compliance with standard SCPI, to establish microwave power measurement system rapidly.

With USB-HUB to achieve multi-channel microwave power measurements

With USB-HUB, it can support multi-channel microwave power measurements functions through a virtual control panel, convenient to facilitate the production line and on-site microwave power monitoring

Patched to Saluki other measuring instruments.

As an option, it can be used for microwave power testing through connecting to spectrum analyzer, RF & Microwave multifunctional tester, VNA etc.

■ Specification

Model	87230	87231	87232	87233
Frequency Range	9kHz - 6GHz	10MHz - 18GHz	50MHz - 26.5GHz	50MHz - 40GHz
Power Range	-50dBm to +20dBm	-60dBm to +20dBm		
Zeroing Accuracy	≤10nW	≤1nW		
Input Port VSWR	100kH - 6GHz: 1.15	10MHz ~ 50MHz:1.21 50MHz ~ 2GHz: 1.15 2GHz ~ 12.4GHz: 1.20 12.4GHz ~ 18GHz: 1.27	50MHz ~ 2GHz: 1.15 2GHz ~ 12.4GHz: 1.20 12.4GHz ~ 18GHz: 1.27 18GHz ~ 26.5GHz: 1.30	50MHz ~ 2GHz:1.15 2GHz ~ 12.4GHz:1.20 12.4GHz ~ 18GHz:1.27 18GHz ~ 26.5GHz:1.30 26.5GHz ~ 40GHz:1.50
Input Connector	N (m)	N (m)	3.5mm (m)	2.4mm (m)
Calibration Factor Uncertainty	±0.16dB	±0.25dB	50MHz - 18GHz: ±0.25dB 18GHz - 26.5GHz:±0.35dB	50MHz - 18GHz: ±0.25dB 18GHz - 40GHz: ±0.35dB
Linearity Power (23 ± 5 ℃)	+10dBm to +20dBm: ±0.18dB -40dBm to +10dBm: ±0.14dB -50dBm to -40dBm: ±0.79dB	+10dBm to +20dBm: ±0.18dB -40dBm to +10dBm: ±0.14dB -50dBm to -40dBm: ±0.39dB -60dBm to -50dBm: ±0.79dB		
Max Input power	+23dBm			
Power supply	Mini USB port			
Power Consumption	≤1.8W			
Operating Temp.	0℃ to 50℃			
Storage Temp.	-40℃ to +70℃			
Dimension(mm)	46.2×35.6×142.6	46.2 ×35.6 ×142.6	46.2×35.6×135.4	46.2×35.6×125.9
Weight	235g	235g	225g	216g

■ Ordering Information

Model

Part No.	Name	Description
87230	Continuous Wave USB Power Sensor	9kHz ~ 6GHz
87231	Continuous Wave USB Power Sensor	10MHz ~ 18GHz
87232	Continuous Wave USB Power Sensor	50MHz ~ 26.5GHz
87233	Continuous Wave USB Power Sensor	50MHz ~ 40GHz

Standard

Part No.	Name
1	S8723X Series USB power sensor *1
2	USB cable, 2m *1
3	U disk (PC software and manuals) *1
4	Certificate of Quality *1



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