

USB Power Sensor Selection Guide

LadyBug Technologies covers the RF and microwave power measurement market with three basic types of USB power sensors.

True RMS Average Sensors, Peak and Pulse Power Sensors, and Time Domain Pulse Profiling Sensors for peak, pulse, average & viewing a signal's power profile.

Our sensors all feature LadyBug's patented No-Zero/ No-Cal technology and offer industry leading measurement uncertainty with 1.95% (+/- 0.086dB) accuracy.

All sensors include a full featured software application, compatibility with Windows XP, Win7, & Win8. Drivers and driver support for Visual Studio, C++, VB. Net, C# & others as well as test and measurement environments. Example files available.

General Sensor Specifications:

Model Number	Frequency Range	Dynamic Range	VSWR	Measurement Capability
True RMS				
LB559A Power Sensor+	10MHz – 12.5GHz	-55dBm to +20dBm	1.20:1	True RMS
LB579A Power Sensor+	10MHz – 18GHz	-55dBm to +20dBm	1.20:1	True RMS
LB589A Power Sensor+	10MHz – 26.5GHz	-55dBm to +20dBm	1.20:1	True RMS
Peak, Pulse, CW and Average				
LB478A Power Sensor+	10MHz – 8GHz*	-35dBm to +20dBm	1.15:1	Peak, Pulse & Average
LB479A Power Sensor+	10MHz – 8GHz*	-60dBm to +20dBm	1.09:1	Peak, Pulse & Average
LB679A Power Sensor+	50MHz – 20GHz	-40dBm to +20dBm	1.20:1	Peak, Pulse & Average
Peak, Pulse, CW, Average and Pulse Profiling				
LB480A Power Sensor+	50MHz – 8GHz*	-60dBm to +20dBm	1.09:1	Pk, Pulse, Avg, Pulse Profile
LB680A Power Sensor+	50MHz – 20GHz	-40dBm to +20dBm	1.20:1	Pk, Pulse, Avg, Pulse Profile

* Note: These Sensors are usable to 10GHz.

Sensor Options:

Connector Option Codes:

OSM	SMA Male
OSF	SMA Female
ONM	N Male
ONF	N Female
35M	3.5MM Male
35F	3.5MM Female



Note: LadyBug uses metrology grade connectors.

Function Options:

001	0-1 Volt typ. via SMB Connector	Recorder Output Scalable output & selectable in linear or dB
003	TTL Level via SMB Connector	Hardware trigger in/ out, Settable rising or falling edge
004	Widens BW to 10MHz	Adds Filters: 100, 200, 300 & 500kHz, 1, 2, 3, 5 & 10MHz
OW2	Wideband video out via SMB connector	+1 volt to 0 volts (negative detecting) 0.15dB/ V typical
Other Options	Additional Connectors	Secure USB cable
Extended Warranty		available
Calibration		available

Note: Not all options are available on all sensors.