



LB5900 Series True-RMS Power Sensor Ordering Guide

Sensor Model	Frequency Range	Standard Connector	Optional Connectors
LB5908A	1 MHz to 8 GHz	Type-N Male	SMA M/F; 3.5mm Male; N-Female;
LB5908L	9 kHz to 8 GHz	Type-N Male	SMA M/F; 3.5mm Male; N-Female;
LB5912A	1 MHz to 12 GHz	Type-N Male	SMA M/F; 3.5mm Male; N-Female;
LB5918A	1 MHz to 18 GHz	Type-N Male	SMA M/F; 3.5mm Male; N-Female;
LB5926A	1 MHz to 26.5 GHz	3.5 mm Male	SMA Male or SMA Female
LB5926L	9 kHz to 26.5 GHz	3.5 mm Male	SMA Male or SMA Female
LB5940A	1 MHz to 40 GHz	2.92 mm Male	2.92 mm Female
LB5940L	9 kHz to 40 GHz	2.92 mm Male	2.92 mm Female
LB5944A	1 MHz to 44 GHz	2.4 mm Male	2.4 mm Female, 2.92 mm Male, 2.92 Female
LB5944L	9 kHz to 44 GHz	2.4 mm Male	2.4 mm Female, 2.92 mm Male, 2.92 Female
LB5954L	9 kHz to 54 GHz	2.4 mm Male	2.4 mm Female
LB5967L	9 kHz to 67 GHz	1.8 mm Male	
LB5975W	50 GHz to 75 GHz	WR-15	

Optional Connectors

Limited by connector frequency specification & may affect lead time

Super SMA Female Connector (Option OSF), SMA Male (Option OSM), Type-N Female (Option ONF), 3.5mm Male (Option 35M) 2.92 mm Female (Option 29F) 1.8 mm Male (18M).

Option 050 for LB5944A/L

Adds Calibration to 50 GHz

Extended Calibration (Option CO3)

Adds two calibrations (shipping not included) providing three years of calibration.

Option 4KZ for "L" Version Sensors

Extends lower calibrated measurement range from 9kHz to 4kHz. Applies to LB5900 sensors up to 50GHz with the L suffix. EX: LB5940L.

HiSLIP LAN with PoE (Option LAN)

Sensors with LAN support HiSLIP and Sockets plus an http API. The sensors feature PoE (Power over Ethernet) and can be powered directly from standard PoE-equipped routers or switches. Once connected, the sensor is available to standard VISA libraries and is controlled using familiar SCPI commands. In addition, sensors includes a built-in web-based power meter and Interactive I/O panel that can be accessed from any modern browser.

- **Also consider** LAN-QS1 Quick Start Kit with PoE & Connectivity for your LAN power sensor. Includes a PoE Network switch, Power injector, Cables and more.

Direct Connection via SPI or I2C (Option SPI)

Designed for ATE system builders that need high accuracy power measurements but do not wish to use USB connectivity. Because the sensor is fully self-contained no USB connection is required. When using Option SPI customers can directly connect to the sensor with standard I2C or SPI interfaces.

We provide detailed SPI / I2C connectivity and programming guides along with technical support for ATE and embedded system developers.

- **Also consider** Our SPI demo kit with instructions, cables, adaptors and a pre-programmed microprocessor board including source code to aid development.

Analog Recorder Output (Option 001)

Provides software selectable 10Hz fully calibrated, scalable Recorder Out and un-calibrated Wideband Analog amplified detector output through an SMB Male connector. Only one may be used a time. Outputs 0-1 Volt into 1,000 ohm load.

Unattended Operation (Option UOP)

Allows unattended autonomous operation of the sensor in conjunction with the internal real-time-clock. Up to 50,000,000 measurements can be stored in non-volatile memory. Only power is required when using Option UOP.

Option MIL

Prevents writes to the user memory area of the sensor including offsets, calibration data unattended storage. Consult the factory for other specifications. Not compatible with Option SAN.

Secure Erase (Option SAN)

Secure erase feature, securely erases user memory in sensor, including offsets, user calibration data, and unattended storage. Allows use of memory in the sensor. Sensor can be erased prior to leaving a secure facility. Not compatible with Option MIL.

Secure USB Cable (Item LBA05)

Provides a connection that cannot be accidentally removed from the sensor. Ideal for sensors that are hidden from view inside test equipment and for sensors mounted on movable objects. Cable includes a 4-40 screw that mates with the rear bulkhead of the sensor.



SMB to BNC Cable (Item LB970)

LB970 is a 48" SMB Female to BNC Male cable. The SMB Male mates with either SMB connector on LadyBug sensors for use with Analog Recorder Output, External Trigger in and Out.



ATE Mounting Bracket (Item LB956A)

Mounting Bracket is designed to hold the sensor securely and safely. The plastic mounting bracket includes all required hardware and instructions needed to install the bracket and sensor inside test equipment and installations. Designed to prevent movement that may affect measurements and cause damage to the sensor.



Thermal Mounting Bracket (Item LB957A)

Mounting Bracket is designed to hold the sensor securely and safely. The plastic mounting bracket includes all required hardware and instructions needed to install the bracket and sensor inside installations. Increases operating temperature range to -55C to +55C using a heater with an internal controller. Requires separate power supply.

