

ST Series Schottky Diode CW USB Power Sensor ST124SMA	
Frequency	10MHz to 12.4GHz
Measurement range	-50 to +20dBm CW
Operating Temperature	0 to 50 deg C
Shock	25G, 11 ms
Vibration	15G, 100 to 2000Hz
Linearity error 25 +/- 5 deg C	+/-0.26 dB; -40dBm to +10dBm; 50MHz ≤ f ≤ 12.4GHz +/-0.46 dB; +10dBm to +20dBm; 50MHz ≤ f ≤ 12.4GHz +/-0.43 dB; -40dBm to +10dBm; f < 50 MHz +/-1.46 dB; +10dBm to +20dBm; f < 50 MHz
Linearity variation 25 +/- 25 deg C	+/-0.5 dB; 50MHz ≤ f ≤ 12.4GHz +/-0.7 dB; 10 MHz ≤ f < 50MHz
Cal factor error 25 +/- 5 deg C	+/-0.17 dB; 10 MHz < f < 12.4 GHz
Cal factor variation 25 +/- 25 deg C	±0.45 dB; f ≥ 50MHz ±0.67dB; f < 50MHz
Zero set	+/-1.8 nW
Noise	0.15 nW RMS
Input SWR - max	1.2:1
Measurement Speed : -50 to -35 dBm	8 measurements per sec.
-35 to -20 dBm	33 measurements per sec.
-20 to +20 dBm	50 measurements per sec.
Max input power (damage level)	200mW CW (+23dBm)
Connector type	SMA (m)
Connectivity	USB 2.0 (cable length up to 5m)
USB power supply current	Approx. 50mA
Sensor Cable Length (std)	193cm
Dimensions (max)	34H x 43W x 125L (mm)
Weight	83 grams

Specifications include expanded uncertainty of measurement stated as the standard uncertainty of measurement multiplied by the coverage factor k=2 which corresponds to a coverage probability of approximately 95% for a normal distribution.
Specifications subject to change – contact Satori Technology for latest information.