

STZ 200 POWER MONITOR

TECHNICAL FEATURE

FEATURES

- Low Barrier Schottky Diode
- Low VSWR < 1.5:1 to 18 GHz
- Flat Frequency Response: 0.01 to 26.5 GHz
- -20 to +20 dBm Dynamic Range



DESCRIPTION

The STZ 200 Power Monitor is designed to operate with 0 dBm RF input and no d.c. bias. These devices provide a flat output of 150 mV nominal at +25°C and vary by less than +1.5 dB over MIL-Spec temperature ranges.

Commonly used in transmitters for EW, radar or communications, power monitors are a key element in automatic leveling (ALC) loops and in BITE circuitry which indicates system performance status. These power monitors mate directly with SMA or with APC-3.5 connectors.

PERFORMANCE @ 25°C

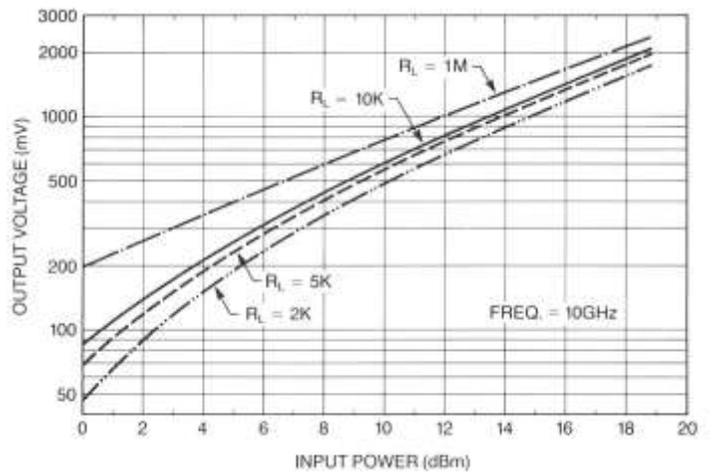
	Typ.	Min.	Max.
Frequency Range	0.01 – 26.5 GHz		
VSWR ² 0.01-26.5 GHz			2.0:1
Output Voltage ^{1,3} (mV)	200	100	
Output Polarity	STZ 200 -- Negative		
	STZ 200P -- Positive		

Outline Drawing – B1

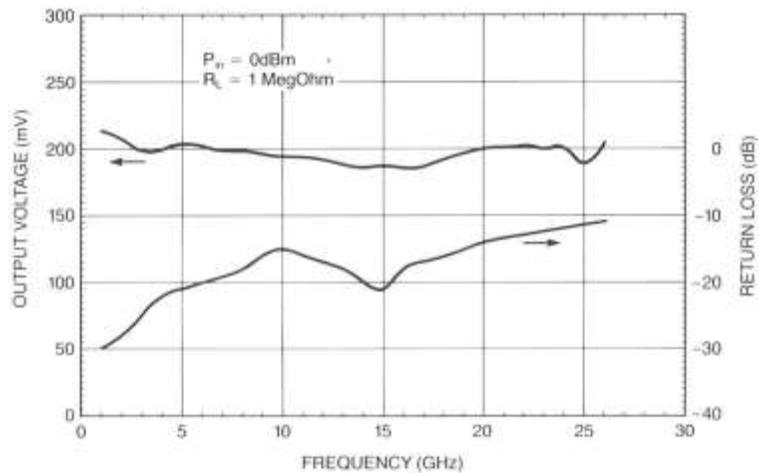
Notes:

1. Measured with $P_{in} = 0$ dBm, $R_L = 1$ Meg Ohm.
2. Typical VSWR is 1.5:1 from 10 MHz to 20 GHz.
3. Minimum guaranteed output from -55°C to +125°C.

TYPICAL TRANSFER CURVE



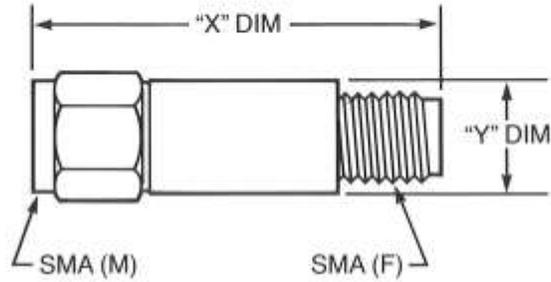
OUTPUT VOLTAGE & RETURN LOSS VS. FREQUENCY



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OUTLINE DRAWING

Case Style "B"



DASH NO.	DIM "X"—INCHES/MILLIMETER				DIM "Y"—INCHES/MILLIMETER			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	IN	MM	IN	MM	IN	MM	IN	MM
B1	1.01	25.65	1.05	26.67	.310	7.87	.335	8.51
B2	1.14	28.96	1.18	29.97	.310	7.87	.335	8.51
B3	1.29	32.77	1.33	33.78	.310	7.87	.335	8.51