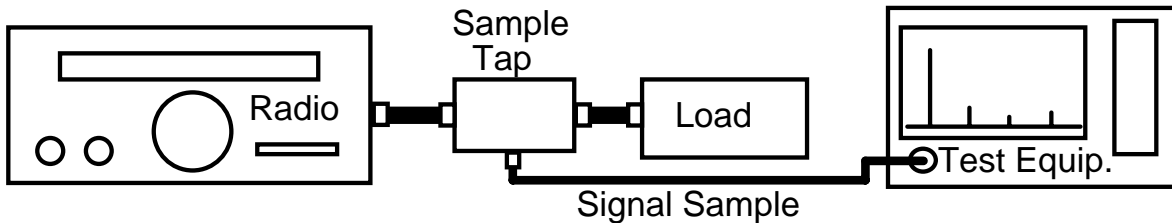


## MFJ-806 Sample Tap

**Description:** The MFJ-806 is an in-line RF sample tap that allows you to safely and accurately monitor output signals from transmitters and other high-power RF generators using an oscilloscope, spectrum analyzer, RF-voltmeter, or other line-level signal monitoring device. The sampled output port is dc-isolated from the RF source, attenuated by ~50 dB (see chart), and fed to a 50-ohm BNC output port. Maximum through-line power rating is 600 Watts. The coupler is bilateral, so it may be oriented in either direction during testing.



**Specifications:**

Usable Range:	.05-100 MHz
Maximum Power	600 Watts
Attenuation:	50 dB nominal
Input/Output	SO-239
Tap	BNC female

Input/Output		Measured Attenuation			
Input Power	Sample Out	MHz	dB	MHz	dB
1000 W	+10 dBm	1	-50	60	-48
100 W	0 dBm	10	-50	70	-47
10 W	-10 dBm	20	-50	80	-46
1 W	-20 dBm	30	-49	90	-45
100 mW	-30 dBm	40	-49	100	-44
10 mW	-40 dBm	50	-48		
1 mW	-50 dBm				

The *Input/Output* chart above converts through-line power in watts to the sample output in dBm. When making precise measurements at higher frequencies, use the *Measured Attenuation* chart to correct your results. For example, a -30 dB measurement made at 60 MHz should be corrected to -32 dB to compensate for the detector's 2-dB increase in sensitivity at that frequency.