



This wideband RF sample/coupler inductively couples a sample of the high power RF (up to 1.5 KW PEP) passing from the RF IN to the RF OUT connector. The sampled RF signal is at a -30 dB level; that is a power gain of .001 (i.e. a power reduction of 1000:1). This reduced level conditions the RF so that is compatible with most oscilloscope vertical input amplifiers. For example, if your scope is set to 1v/div, then each division of signal equals 31.6 volts, (i.e. as if the scope was set to 31.6 volts/div)

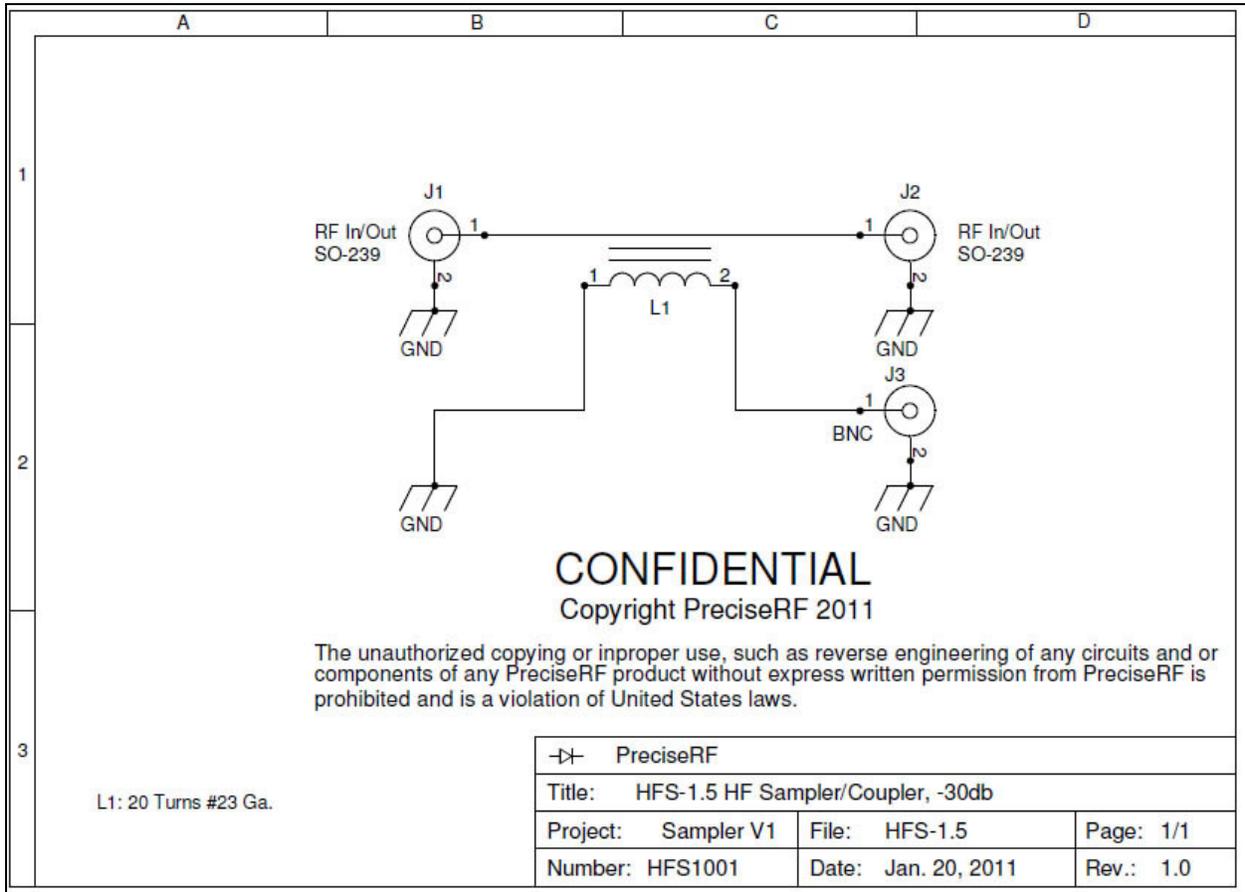
The sampled signal is very useful for analyzing HF transmissions on an oscilloscope and/or spectrum analyzer. Some of these uses

include the measurement and monitoring of RF power output, SSB and AM modulation, CW keying, RTTY signal analysis and the evaluation of two tone testing.

Each HFS-1.5 HF sampler/coupler comes completely assembled in a premium shielded die cast aluminum alloy A380 housing. The housing is blue baked enamel per Federal Standard 595 #25109 over primer wash per DOD-P-15328.



Specifications	
Max input power:	1,500 Watt PEP crest factor 4:1
Insertion loss:	Negligible (< .01 dB)
Bandwidth:	1-100 MHz (useable to 250 MHz)
Impedance RF IN:	50ohm
Impedance RF OUT:	50ohm
Impedance sampler out:	50ohm
VSWR:	Better than 1:1.1
Return loss:	> -25dB
Sampler output level:	-30dB +/- 1dB
Sampler power gain:	0.001
Sampler voltage gain:	0.0316 (1v/div=31.6V)
Connectors RF IN/OUT:	SO-239
Connector sampler OUT:	BNC
Physical:	.25 lbs 2.25 x 1.4 x1 .2 in
Application:	RF/Power measurements Oscilloscope Vertical (Y input) (Post-Amplifier sampled signal) RF Modulation Envelope Monitor, Peak Envelope Power Monitor, Spectrum analyzer input.



All products are calibrated and tested to meet or exceed published specifications. The optional NIST calibration certificate is provided for users needing a calibration reference showing the actual performance achieved. This calibration is done using NIST traceable instruments. Some test and measurement equipment was calibrated at the PreciseRF laboratory using NIST traceable instruments. The item calibrated may be used as a calibration reference only, and shall not be used as a NIST calibration standard. This certificate shall not be reproduced without the express written permission from the calibration facility.

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