

- Operation from 1.2GHz to 4GHz
- Phase Noise of -175 dBc/Hz
- Splitter Loss = -3.6dB
- Splitter Isolation = -38dB



SUMMARY

Holzworth power splitters make excellent accessories for precision test systems because of low phase noise characteristics and isolation between output ports.

Holzworth power splitters have been designed as standard accessories to the Holzworth hybrid phase noise test systems. Their primary function is to allow for monitoring the frequency of a DUT during absolute phase noise measurements in order to achieve a proper frequency lock.

Holzworth products are 100% final performance tested for phase noise verification¹.

SPECIFICATIONS²

PARAMETER	MIN	TYP	MAX	UNITS	COMMENTS
LO/RF Frequency Range	1.2		4.0	GHz	
Input Impedance		50		ohms	
Input Power			+ 26	dBm	
Insertion / Splitter Loss			- 5.0	dB	See data in Figure 1
Phase Noise (Additive) 100MHz, 10kHz Offset		-175	-170	dBc/Hz	
Output Port Isolation					
2.0 GHz		-23		dB	See data in Figure 2
2.5 GHz		-38		dB	See data in Figure 2
4.0 GHz		-23		dB	See data in Figure 2
Input / Output Connectors	SMA Female				
Housing Dimensions (LxWxH)	1.75" x 1.5" x 0.5" (44.5mm x 38.1mm x 12.7mm)				

¹ Final performance verification at 100MHz Input, $RF_{PWR}=+10dBm$

² Specifications are subject to change per the discretion of Holzworth Instrumentation, Inc.

RoHS Compliant

HX3300 PERFORMANCE DATA

The data provided here demonstrates typical performance of the HX3300 Power Splitter under ambient laboratory conditions.

Figure 1 and figure 2 demonstrate the power splitter loss and the output isolation, respectively.

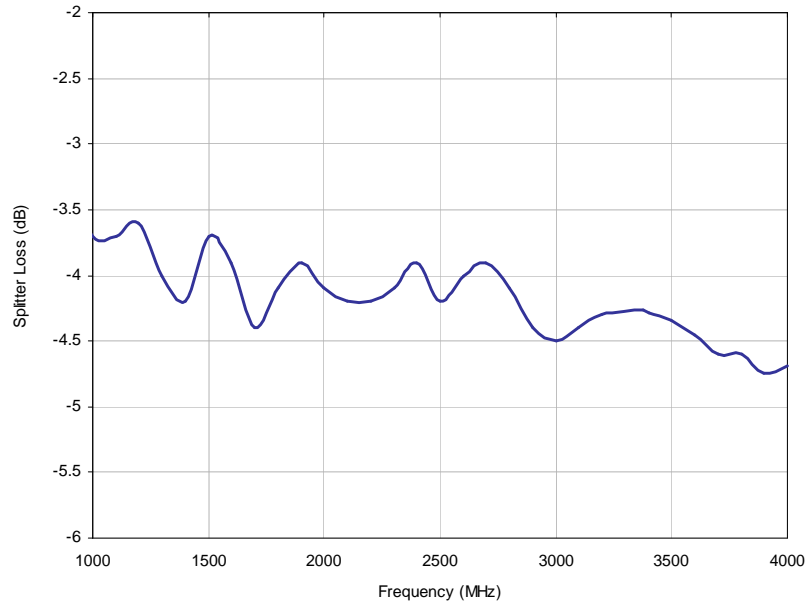


Figure 1: Power Splitter Loss

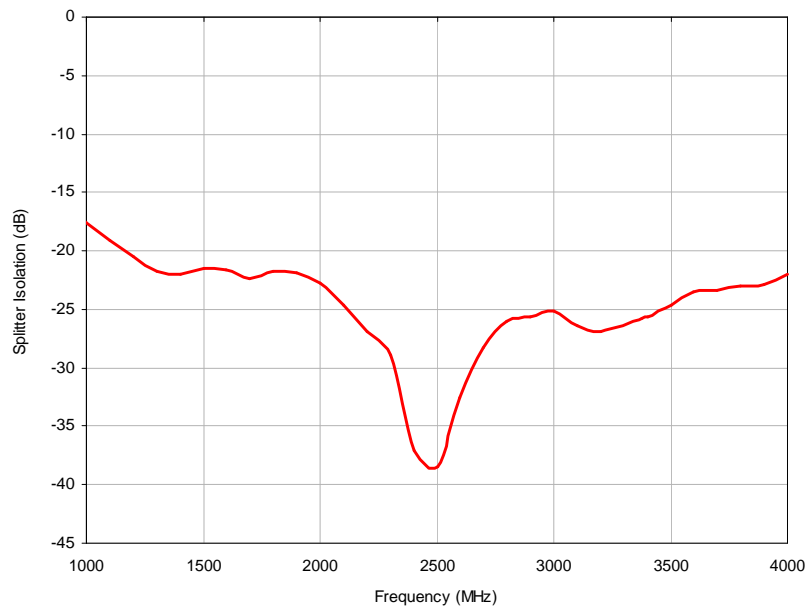
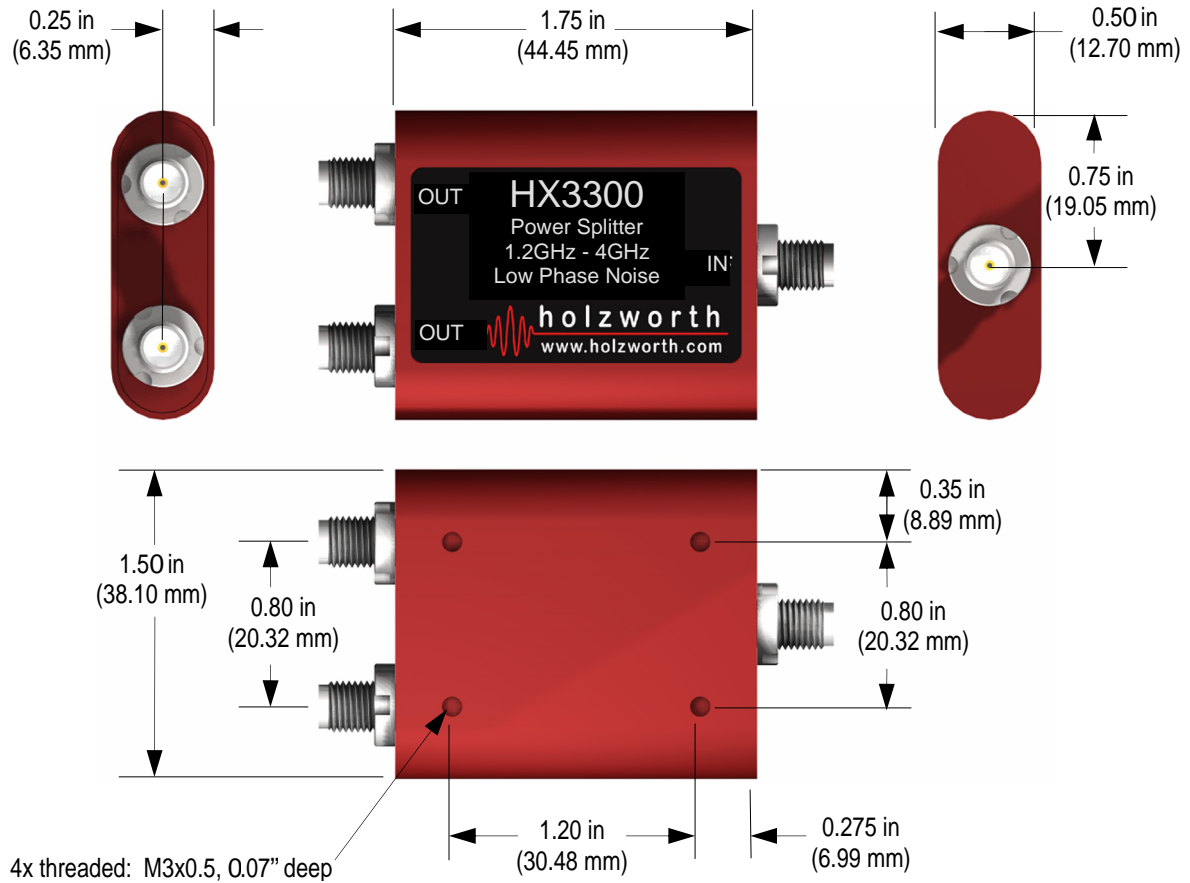


Figure 2: Power Splitter Isolation

MECHANICAL

The HX3300 comes in a compact, shielded housing complete with threaded mounting holes for ease of system integration into various test sets.



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WARRANTY

Holzworth power splitters come with a 1 year 100% product warranty covering manufacturing defects. All product repairs and maintenance must be performed by Holzworth Instrumentation. Holzworth reserves the right to invalidate the warranty for any product that has been tampered with or used improperly. Refer to Holzworth Terms & Conditions of Sales for more details.