



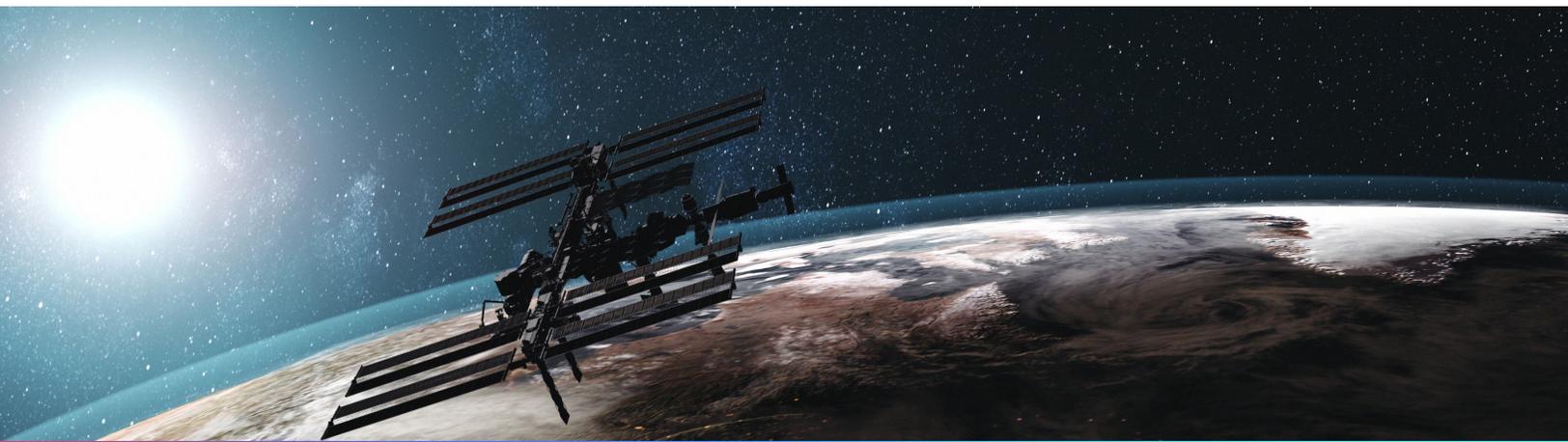
HX4210

100 MHz 10x Frequency Divider
Ultra Low Phase Noise

Datasheet

Models:

» HX4210



MODEL HX4210

100MHz 10x Frequency Divider

ULTRA LOW PHASE NOISE

- > **100MHz Input, 10MHz Output**
- > **+10dBm Input / Output**
- > **-170 dBc/Hz Additive Phase Noise**
- > **DC Supply: 8VDC to 12VDC (100mA)**
- > **Integrated Low Noise Bias Network**



The HX4210 100MHz 10x Frequency Divider is a high grade laboratory accessory. An emphasis was placed on maintaining the low jitter and phase noise of an external reference or frequency source to maintain the integrity of system timing and noise.

The HX4210 Frequency Divider is a laboratory grade reference divider that has a high output power and will operate with a broad range of power supplies. The products are 100% final performance tested for phase noise verification¹.

Specifications

PARAMETER	MIN	TYP	MAX	UNITS	COMMENTS
Input Frequency	90	100	110	MHz	50 ohms
Output Frequency	9	10	11	MHz	50 ohms
Input Power	5	10	15	dBm	50 ohms
Output Power	9	11	13	dBm	50 ohms
Phase Noise (Additive)		-170		dBc/Hz	Output Referred (100MHz Input)
Output Harmonics					
2nd Harmonic		-40	-30	dBc	10MHz ±2MHz
3rd Harmonic		-60	-30	dBc	10MHz ±2MHz
Spurious Output		-70		dBc	
DC Supply	8		12	VDC	±10%, 50mA
RF Connectors	SMA Jack (female)				
DC Connector	SMA Jack (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 RFINPUT= 100MHz / +10dBm, RFOUTPUT= 10MHz, Residual Setup

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

HS4210 Performance Data

The phase noise data provided here demonstrates typical performance of the HX4210 100MHz 10x Frequency Divider under ambient laboratory conditions. Refer to Figure 1 for phase noise data and Figure 2 for a diagram of the test setup.

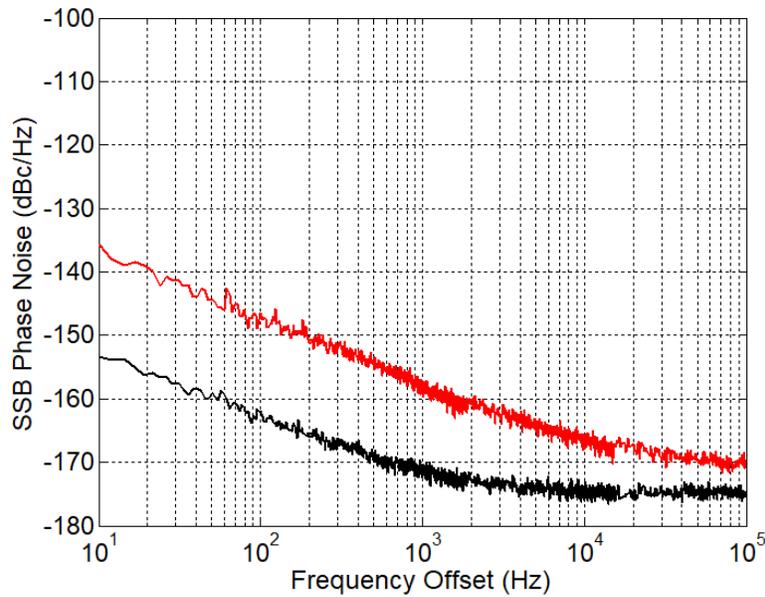


Figure 1: HX4210 Phase Noise Data

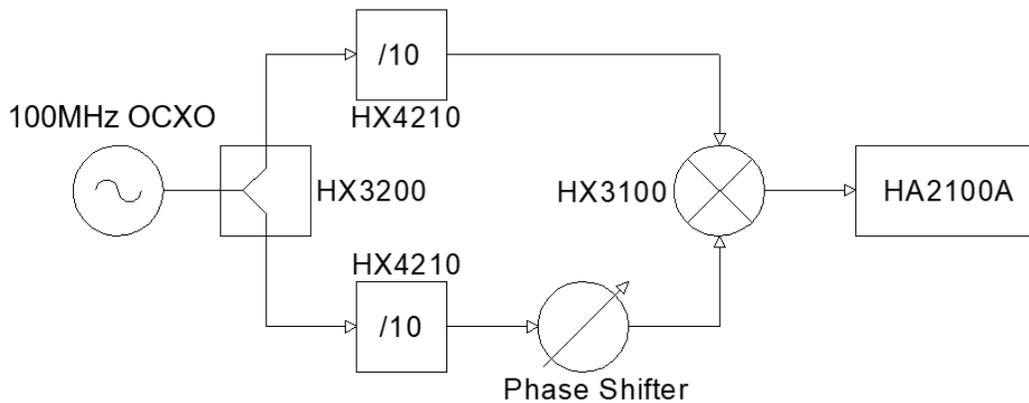
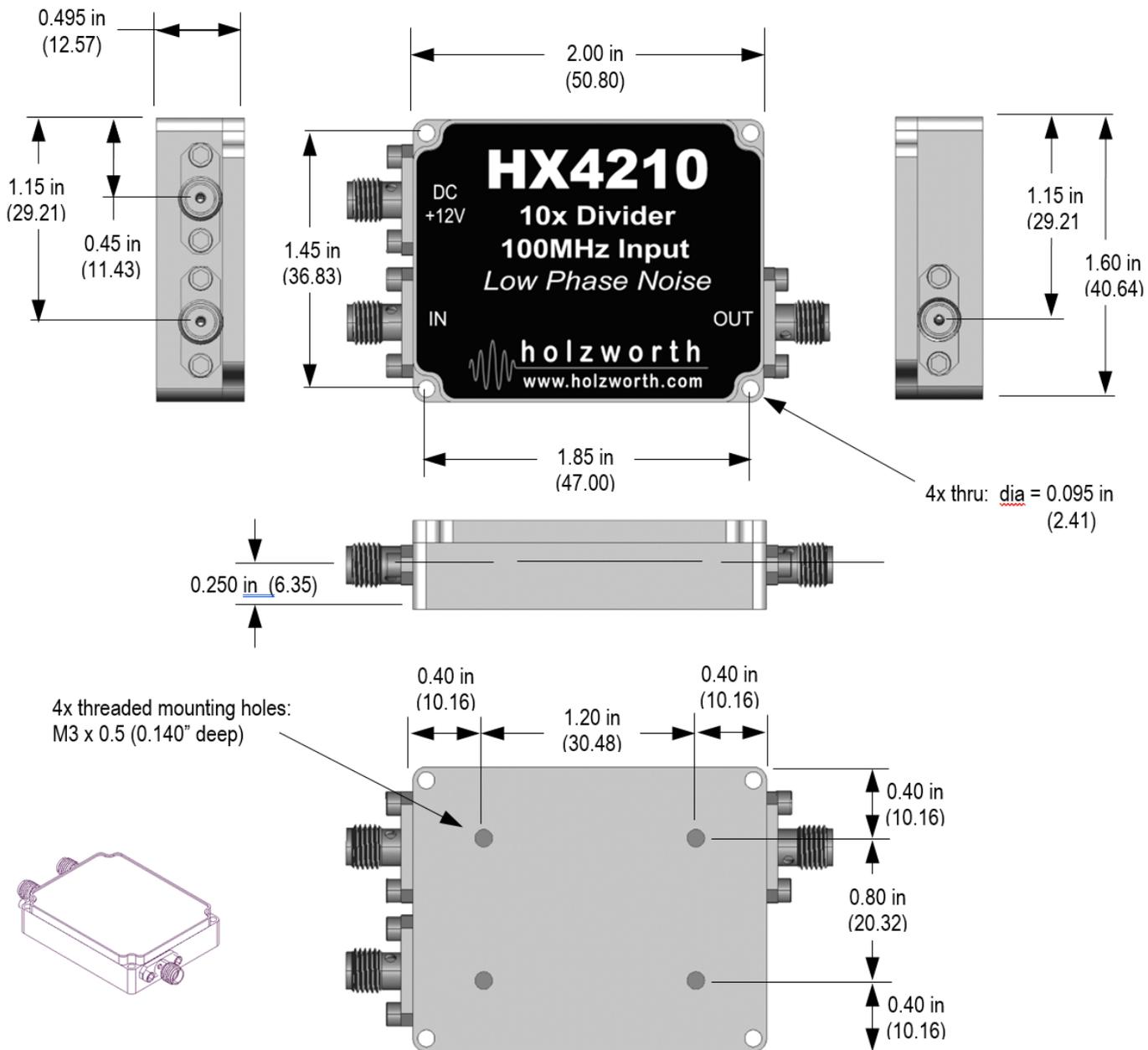


Figure 2: Phase Noise Test Setup

Mechanical

The HX4210 Frequency Divider comes in a compact, shielded housing complete with mounting holes for ease of system integration into various applications. Mechanical dimensions are listed in both inches and (mm). Tolerances are to within ± 0.010 inches.



RoHS Compliant



Datasheet

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CONTACT US:

W / maurymw.com
E / maury@maurymw.com
P / +1-909-987-4715
F / +1-909-987-1112
2900 Inland Empire Blvd
Ontario, CA 91764

