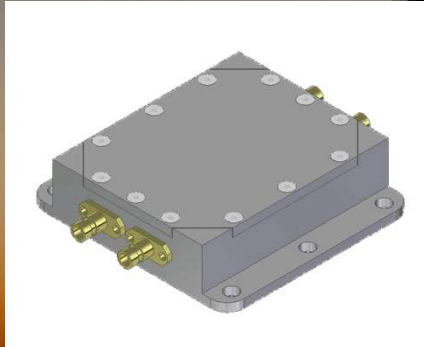


Hera – Multiplexer



FEATURES

- ✓ 900 to 2,100 MHz bandpass (L-band)
- ✓ 0.5 dB (L-band) thru loss
- ✓ 1.3:1 (L-band) VSWR
- ✓ 90 dB (10 MHz to Rx Port) isolation
- ✓ Does not degrade phase noise

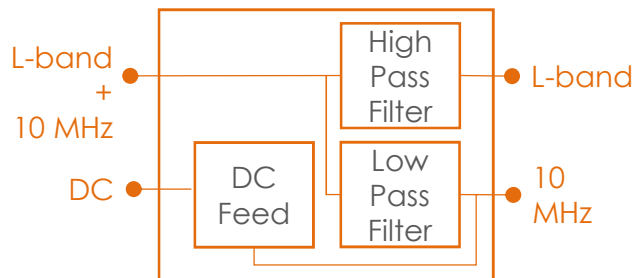
Multiplexer

#blileytakesyoufurther

Description

The Hera Series is an L-band multi-functional multiplexer (mux/tee) that operates as a bias-tee, diplexer, mux/tee to combine DC and/or 10 MHz into the L-band signal. The Hera Series also operates in reverse to remove DC, 10 MHz, or both.

Block Diagram



Part Number Configuration

L-band + RF Output

- A: SMA
- B: F-type
- C: N-type

DC

- A: SMA
- B: BNC
- C: N-type
- D: TNC

HER

-

Project Identifier

Form Factor
1: Flange

L-band

- A: SMA
- B: F-type
- C: N-type

RF input

- A: SMA
- B: BNC
- C: N-type
- D: TNC

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REV 0.1 2018

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Performance Specifications

Parameter	Conditions	Values			Unit
L-band Characteristics		MIN	TYP	MAX	
Bandpass		900		2,100	MHz
Thru Loss				0.5	dB
Ripple				±0.3	dB
VSWR				1.3:1	
10 MHz Characteristics		MIN	TYP	MAX	
Passband		1		100	MHz
Thru Loss	10 MHz to LNB			0.2	dB
Isolation	10 MHz to Rx Port	90			dB
VSWR				1.6:1	
DC Characteristics		MIN	TYP	MAX	
Resistance				0.2	Ω
Power Characteristics		MIN	TYP	MAX	
Power Dissipation	Passive device, no power required				
Power Capacity					
	12 to 24 Vdc			2.0	A

Note(s):

1. Typical of SMA connector configuration unless otherwise noted
2. Passive device, no power required

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Environmental Compliance

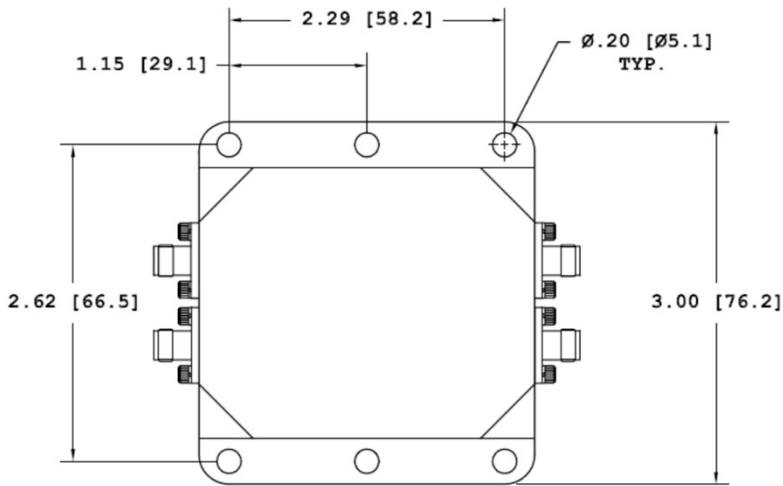
Parameter	Conditions	Values			Unit
Environmental & Reliability		MIN	TYP	MAX	
Operating Temperature		-40°C		+85	°C
Storage Temperature		-55°C		+95	°C
Shock	MIL-STD-202 Method 213, Test Condition A	Survive			
Sinusoidal Vibration	MIL-STD-202 Method 204, Test Condition B	Survive			
Random Vibration	RTCA DO-160	Survive			

Note(s):

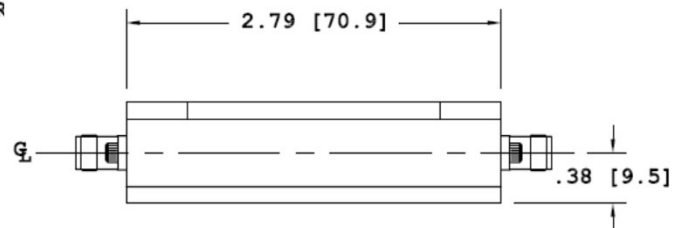
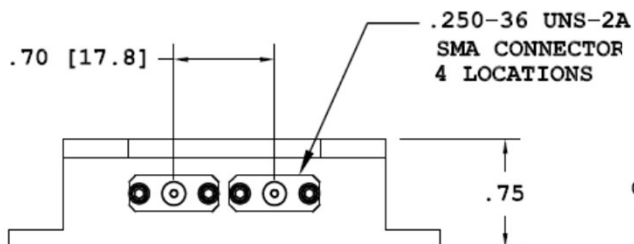
1. Typical of SMA connector configuration unless otherwise noted

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Physical Specifications (-1, Flange Mount)



PIN	FUNCTION
J1	L-band + 10 MHz
J2	L-band
J3	DC
J4	10 MHz



Tolerances (mm) .X = ± 0.1 (2.54), .XX = ± 0.03 (0.8), holes = ± 0.005 (1.3), unless otherwise specified



Sunburst Electronics

Notes:

- Inches (millimeter)

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