



Broadband Frequency Doubler 10 MHz-2.0 GHz Output

D-1-4

- Conversion Loss – 13 dB Max
- Untuned

Guaranteed Specifications*

(From – 55°C to + 85°C)

Input Frequency Range	5 MHz-1 GHz	
Output Frequency Range	10 MHz-2 GHz	
Conversion Loss*	13 dB Max @ 20 mW Input	
Spurious (Referred to Output F ₂ Level)		
F ₁	5-500 MHz	– 20 dB
	0.5-1.0 GHz	– 10 dB
F ₃	15-1500 MHz	– 20 dB
	1.5-3.0 GHz	– 15 dB

Operating Characteristics

Typical Input VSWR	5-500 MHz	1.8:1
	500 MHz-1 GHz	2.5:1
Typical Conversion Loss as Quadrupler	25 dB	
Input/Output Impedance	50 Ohms	
Maximum Input Power	0.5 Watt	

Environmental

See Appendix for MIL-STD-883 screening option.

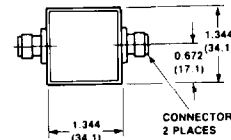
* Optimum input. Output 3 dB down @ 7 mW and @ 100 mW input.

* All specifications apply when operated at: +13 dBm input power 50 ohm source and load impedance.

Ordering Information

Model No.	Package
D-1-4 BNC	Connectorized
D-1-4 SMA	Connectorized

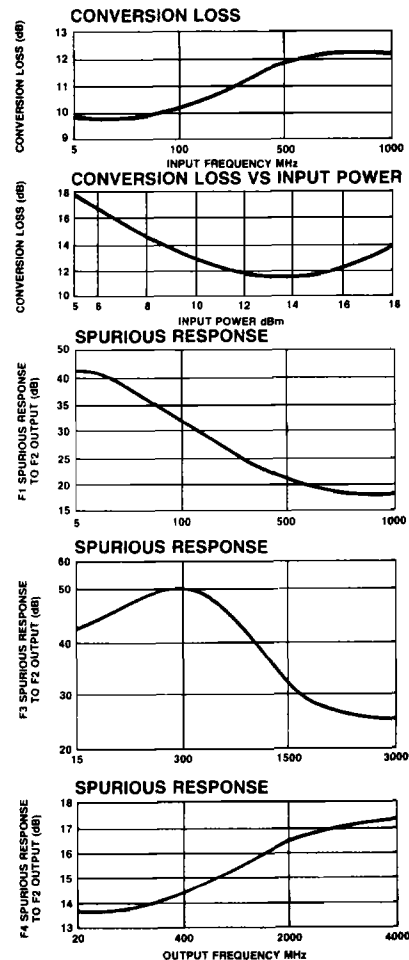
C-5



Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Typical Performance



Specifications Subject to Change Without Notice.

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