

FREQUENCY DOUBLERS

D-1505

Features

- Input 1.5 to 5.0 GHz
- Output 3.0 to 10.0 GHz
- 10 dB Typical Conversion Loss
- 30 dBc Typical Third Harmonic Suppression
- Two Input Levels Available
- Multi-Octave Band Input



Electrical Specifications - Specifications guaranteed from -55 to +100°C, measured in a 50-Ohm system

Parameter	INPUT (GHz)	OUTPUT (GHz)	Min	Тур	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)						
F(in)	1.5-5.0			10.0	12.0	
2F(out)		3.0-10.0				
Suppressions (dBc)						
F(in) Fundamental		1.5-5.0	15	25		
3F(out) Third Harmonic		4.5-10.0	20	30		
Input Level (dBm)						L (+10 to +13)
(Consult Marki Microwave for Higher Input Levels)						M (+13 to +16)

Part Number Options

Please specify diode level and package style by adding to model number.									
Package Options		Examples							
Connectorized	<u>P</u>	D-1505LP							
Package Options Not Recommended for New Designs		Examples							
Microstrip ^{1,2}	F	<u>D-0308</u>	Ŀ	Ē					
	-	(Model)	(Diode Option)	(Package)					

¹Connectorized test fixtures available for most microstrip packages. Consult factory.

²E packages are offered in support of <u>designed in projects only</u>. For new designs consult the <u>MLD-0416SM</u>.

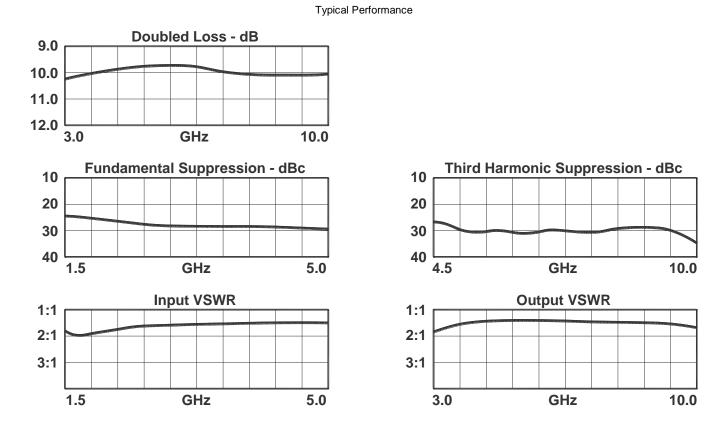


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Page 2

Input 1.5 to 5.0 GHz Output 3.0 to 10.0 GHz



DATA SHEET NOTES:

1. Doubled Loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.

2. Maximum input power is +23 dBm at +25°C, derated linearly to +20 dBm at +100°C.

3. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

4. Standard configuration for A, B, and C outlines are with connectors and bottom spacer.

5. Catalog doubler circuits are continually improved. Configuration control requires custom model numbers and specifications.

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