

## **FREQUENCY DOUBLERS**

D-0102



## Features

- Input 1.0 to 2.0 GHz
- Output 2.0 to 4.0 GHz
- 9.5 dB Typical Conversion Loss
- 30 dBc Typical Third Harmonic Suppression
- Two Input Levels Available
- Octave Band Input

Parameter	INPUT (GHz)	OUTPUT (GHz)	Min	Тур	Мах	Diode Option LO drive level (dBm)
Conversion Loss (dB)						
F(in)	1.0-2.0			9.5	12.0	
2F(out)		2.0-4.0				
Suppressions (dBc)						
F(in) Fundamental		1.0-2.0	15	20		
3F(out) Third Harmonic		3.0-4.0	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 Styles		Examples						
Connectorized	<u>A</u>	D-0102LA, D-0102LEZ						
Microstrip <sup>1</sup>	Ē	<u>D-0102</u>	Ŀ	<u>EZ</u>				
Surface Mount <sup>1</sup>	EZ	(Model)	(Diode Option)	(Package)				

<sup>1</sup>Connectorized test fixtures available for most microstrip and surface mount packages. Consult factory.

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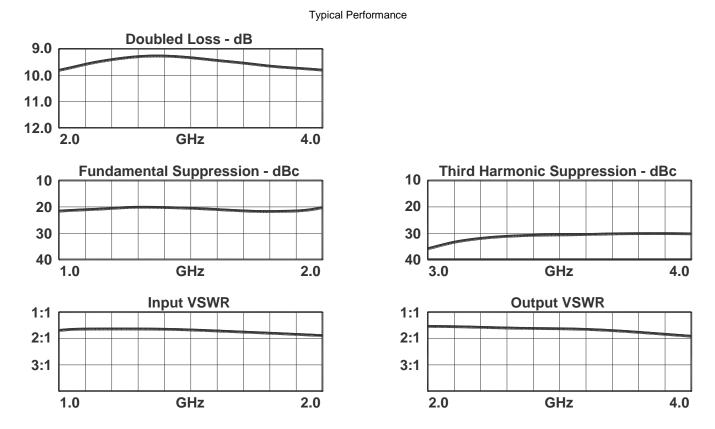
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Input 1.0 to 2.0 GHz Output 2.0 to 4.0 GHz



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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