

FREQUENCY DOUBLERS

D-1550



Features

- Input 7.5 to 25.0 GHz
- Output 15.0 to 50.0 GHz
- 12 dB Typical Conversion Loss
- 20 dBc Typical Fundamental Suppression

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

Parameter	INPUT (GHz)	OUTPUT (GHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)						
F(in)	10.0-20.0			12.0	14.0	
2F(out)		20.0-40.0				
F(in)	7.5-25.0			13.0	16.0	
2F(out)		15.0-50.0				
Suppressions (dBc)						
F(in) Fundamental		7.5-25.0	12	20		
3F(out) Third Harmonic		22.5-50.0		20		
Input Level (dBm)						L (+10 to +13) M (+13 to +16) I (+15 to +20)

Part Number Options

<i>Please specify diode level and package style by adding to model number.</i>	
Package Style(s) ¹	Example
ES , NKV , NSV , NVV	D-1550 <u>L</u> <u>NKV</u>

¹Connectorized test fixtures available for most carrier and surface mount packages. Consult factory.

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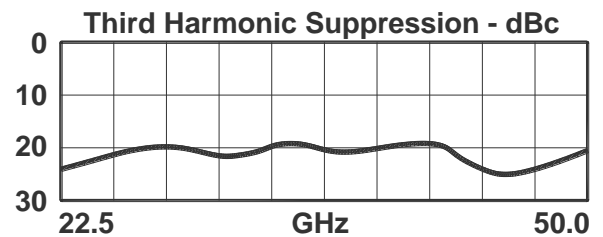
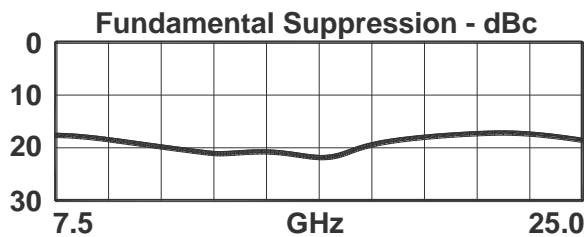
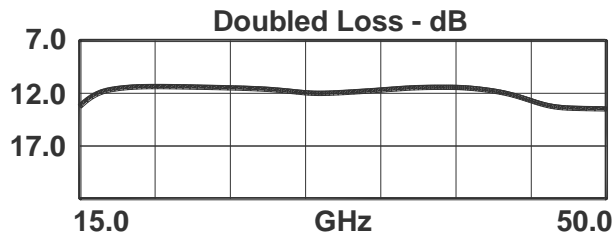
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Output 15.0 to 50.0 GHz**

Typical Performance



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

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