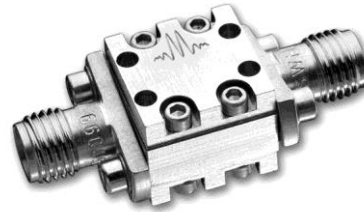


FREQUENCY DOUBLERS

D-0840



Features

- Input 4.0 to 20.0 GHz
- Output 8.0 to 40.0 GHz
- 10 dB Typical Conversion Loss
- 15 dBc Typical Fundamental Suppression
- 2.92 Connectors
- Available with 2.40 mm Connectors

Note: This part is being discontinued due to material obsolescence. Please see this [EOL letter](#) for recommended replacements.

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)	5.0-17.5			10.0	15.0	
2F(out)		10.0-35.0				
F(in)	4.0-20.0			10.0	16.0	
2F(out)		8.0-40.0				
Suppressions (dBc)						
F(in) Fundamental		4.0-20.0	12	15		
3F(out) Third Harmonic		12.0-40.0	15	25		
Input Level (dBm)						L (+10 to +13) 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, N, NKV, NSV, NVV	D-0840 <u>L</u> <u>N</u>

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

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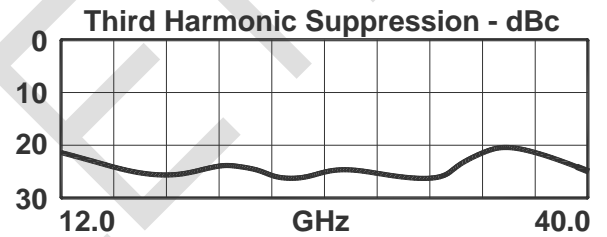
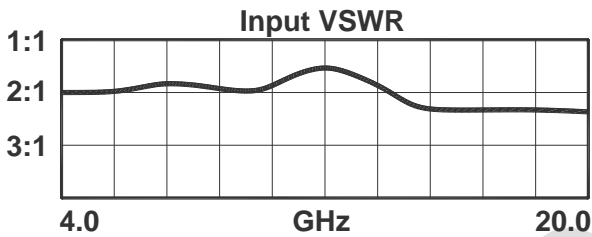
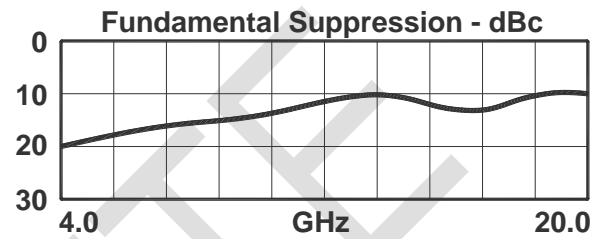
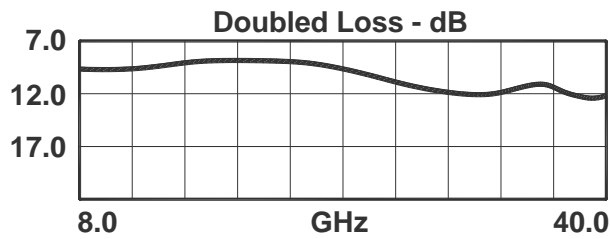
FREQUENCY DOUBLERS

D-0840

Page 2

**Input 4.0 to 20.0 GHz
Output 8.0 to 40.0 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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