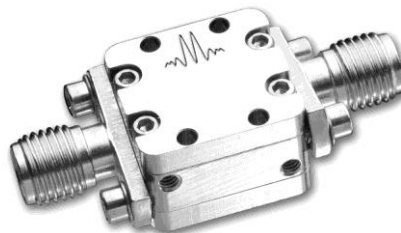


FREQUENCY DOUBLERS

D-0515



Features

- Input 5.0 to 15.0 GHz
- Output 10.0 to 30.0 GHz
- 10 dB Typical Conversion Loss
- 30 dBc Typical 3rd Harmonic Isolation
- Two Input Levels Available
- Multi-Octave Band Input

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) 2F(out)	5.0-15.0	10.0-30.0		10	13.5	
Suppressions (dBc) F(in) Fundamental 3F(out) Third Harmonic		5.0-15.0 15.0-30.0	15 20	20 30		
Input Level (dBm)						L (+10 to +13)

Part Number Options

Please specify diode level and package style by adding to model number.	
Package Style(s) ¹	Example
S	D-0515 <u>L</u> <u>S</u>

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

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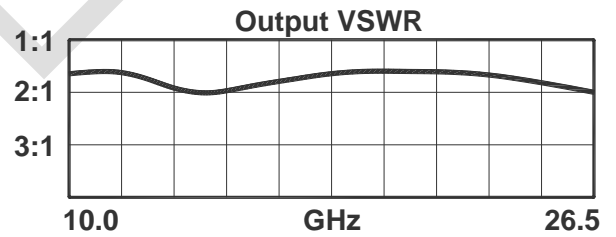
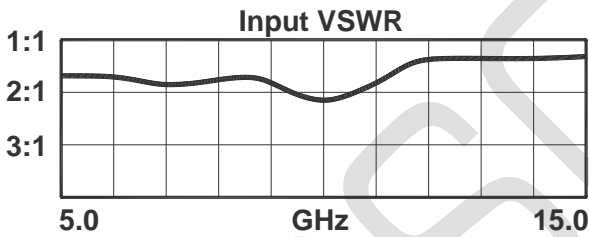
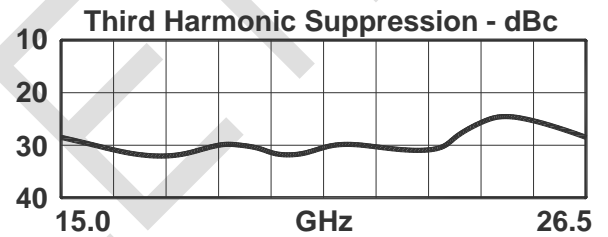
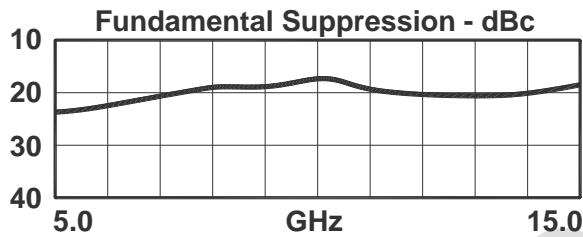
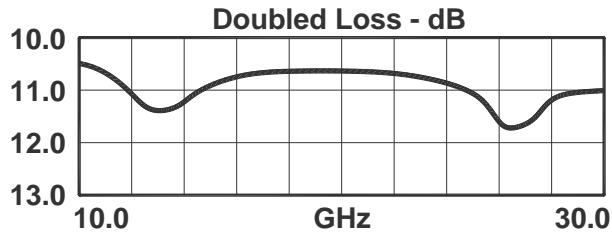
FREQUENCY DOUBLERS

D-0515

Page 2

Input 5.0 to 15.0 GHz
Output 10.0 to 30.0 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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