

FDZ5013 / FDZ5013C





6 TO 24 GHZ FREQUENCY DOUBLER

INPUT: 3 TO 12 GHz OUTPUT: 6 TO 24 GHz

INPUT DRIVE LEVEL: +13 dBm (NOMINAL)

HERMETICALLY-SEALED PACKAGE

Specifications (Rev. Date: 2/02)*

Specifications (Rev. Date. 2702)				
Characteristics	Typical	Guar	Guaranteed	
		+25°C	-54° to +85°C	
Conversion Loss (max.)				
$F_{in} = 3 \text{ to } 12 \text{ GHz}$	12.0 dB	14.5 dB	15.0 dB	
- m				
Fundamental Suppression (min.)				
$F_{in} = 5 \text{ to } 8 \text{ GHz}$	15.0 dBc	11.0 dBc	9.0 dBc	
$F_{in} = 3 \text{ to } 9 \text{ GHz}$	13.0 dBc	9.5 dBc	7.5 dBc	
$F_{in} = 3 \text{ to } 12 \text{ GHz}$	11.0 dBc	8.0 dBc	6.0 dBc	
Third Harmonic Suppression				
$F_{in} = 3.0 \text{ to } 5.0 \text{ GHz}$	25 dBc	20 dBc	18 dBc	
$F_{in} = 5.0 \text{ to } 8.5 \text{ GHz}$	22 dBc	17 dBc	15 dBc	
Input VSWR				
$F_{in} = 5 \text{ to } 10 \text{ GHz}$	1.7:1			
$F_{in} = 3 \text{ to } 12 \text{ GHz}$	2.0:1			

^{*}Measured in a 50-ohm system at +25°C with nominal input drive level. Typical values are measured at +25°C and are not guaranteed.

Absolute Maximum Ratings

Operating Temperature	-54° to +100°C
Storage Temperature	-65° to $+125^{\circ}$ C
Peak Input Power	+23 dBm max. @ +25°, +20 dBm max. @ +100°C

Outline Drawings

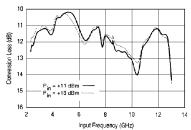
Package	Figure	Model
Versapac	JF	FDZ5013
SMA Connectorized	JE	FDZ5013C



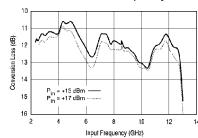


Typical Performance at 25°C

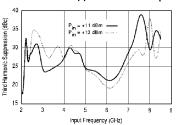
Conversion Loss vs. Frequency



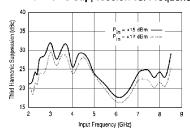
Conversion Loss vs. Frequency



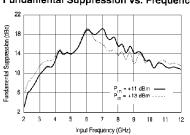
3rd Harmonic Suppression vs. Frequency



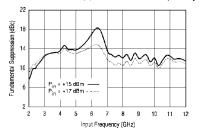
3rd Harmonic Suppression vs. Frequency



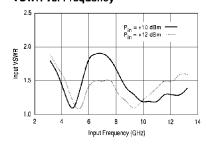
Fundamental Suppression vs. Frequency



Fundamental Suppression vs. Frequency



VSWR vs. Frequency



VSWR vs. Frequency

