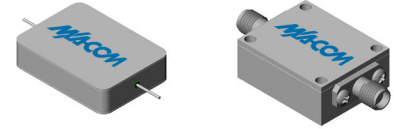




FD93H / FD93HC



FREQUENCY DOUBLER

- INPUT: 2 TO 9 GHz
- OUTPUT: 4 TO 18 GHz
- INPUT DRIVE LEVEL: +19 dBm (NOMINAL)
- HERMETICALLY-SEALED PACKAGE

Specifications (Rev. Date: 2/02)*

Characteristics	Typical	Guaranteed	
		+25°C	-54° to +85°C
Conversion Loss (max.) F _{in} = 2 to 4 GHz F _{in} = 4 to 9 GHz	11.0 dB 12.0 dB	13.0 dB 14.0 dB	13.3 dB 14.3 dB
Fundamental Isolation (min.) F _{in} = 2 to 9 GHz	25 dB	18 dB	17 dB
Third Harmonic Suppression F _{in} = 2 to 6 GHz	25 dBc	16 dBc	15 dBc
Input VSWR F _{in} = 2 to 9 GHz	1.5:1		

*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

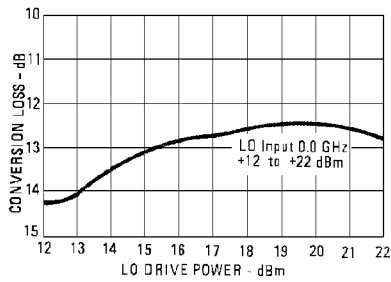
Operating Temperature	-54° to +100°C
Storage Temperature	-65° to +100°C
Peak Input Power	+23 dBm max. @ +25°, +20 dBm max. @ +100°C

Outline Drawings

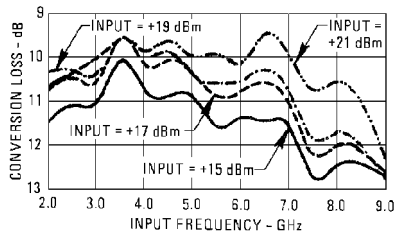
Package	Figure	Model
Minipac	DQ	FD93H
SMA Connectorized	DP	FD93HC

Typical Performance at 25°C

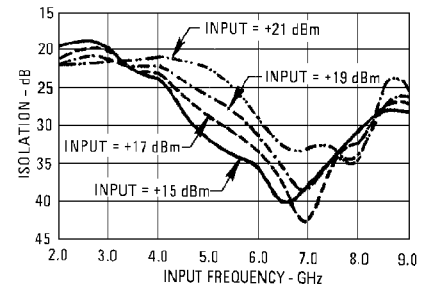
Conversion Loss Vs. LO Drive Power



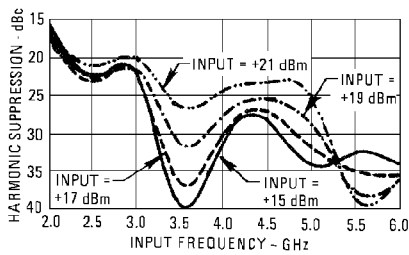
Conversion Loss vs. Input Frequency



Isolation vs. Frequency



Suppression vs. Input Frequency



VSWR vs. Frequency

