



COMB (HARMONIC) GENERATORS

ULTRA BROADBAND HIGH FREQUENCY

1 – 75 GHz

FEATURES

- Very Broad Band High Output Frequency Spectrum (from 1-75 GHz), Single Unit
- No Bias Required
- Input Matched to 50 Ohms
- Very Low Phase Noise
- Custom Input Frequency Available From 1-10 GHz
- Ideal Frequency Multiplication Base Element For Millimeter wave Frequency Generation
- Hermetically Sealed Module
- Removable Connector Drop-In Module



APPLICATIONS

- Frequency Multipliers
- Frequency Synthesizers
- Built-in-Self-Test Sources

ENVIRONMENTAL RATINGS

Max Input Power ².....1 Watt CW
Operating Temperature Range.....-55°C to +125°C
Storage Temperature Range.....-65°C to +125°C
Shock..... 50G, 11 msec
Vibration..... 20G, 100 to 2000 Hz

Typical Performance @ Pin = +27 dBm @ 25 Deg. C (Preliminary)

MODEL	INPUT FREQ. (GHz)	MAXIMUM INPUT VSWR	TYPICAL OUTPUT POWER PER PICKET* (dBm)				CONNECTOR		OUTLINE
			Up to 20 GHz	20 to 40 GHz	40-60 GHz	60-75 GHz	Input	Output	
GC1075A	1	2.1	-15	-45	-50	-55	SMA (F)	1.85mm (F)	0B-1
GC2075A	2	2.1	-15	-35	-45	-50	SMA (F)	1.85mm (F)	0B-1
GC307A	3	2.1	-10	-30	-30	-45	SMA (F)	1.85mm (F)	0B-1
GC407A	4	2.1	-10	-35	-35	-40	SMA (F)	1.85mm (F)	0B-1
GC507A	5	2.1	-5	-20	-25	-35	SMA (F)	1.85mm (F)	0B-1

* Output frequency starts from 2nd harmonic of the input frequency and up.

For Package Outlines see Outline Drawings Pages