Bulletin No. SFE

FEATURES

- High output power
- Full waveguide bandwidth
- Extends MW frequencies to MMW bands
- Output frequency up to 110 GHz

APPLICATIONS

- Automatic test set
- Bench top test set
- Local oscillators
- Swept frequency sources

SFE Series

DESCRIPTION

SFE series of frequency extenders combine high performance millimeterwave amplifiers, passive or active multipliers and filters to extend the low frequency sweepers, such as HP 83550B or Agilent 83751B, to extreme clean and low cost millimeterwave sources. The frequency extenders cover the output frequency range of 26.5 to 110 GHz in six waveguide bands. The typical input power for these standard units are rated at + 10.0 dBm while the output power up to 20 dBm is available. The SMA (F) coaxial connector is equipped for input and standard waveguide for output interface. The dimension of the standard products is measured as 4.20” (W) x 6.15” (L) x 2.68” (H).

STANDARD PRODUCT SPECIFICATIONS

Model Number	Output Freq. (GHz)	Multiplying Factor	Input Freq. (GHz)	Output Power (dBm, Min)	Input Power (dBm, Typ.)	Output Waveguide	Bias (V/mA)
SFE-280208-01	26.5 - 40.0	X 2	13.25 - 20.0	8.0	+3.0	WR-28	+8 / 200
SFE-280220-01	26.5 - 40.0	X 2	13.25 - 20.0	20.0	+3.0	WR-28	+8 / 600
SFE-220305-01	33.0 - 50.0	X 3	11.00-16.67	5.0	+3.0	WR-22	+8 / 200
SFE-190305-01	40.0 - 60.0	X 3	13.33 - 20.0	5.0	+3.0	WR-19	+8 / 200
SFE-150405-01	50.0 - 75.0	X 4	12.5 - 18.75	3.0	+3.0	WR-15	+8 / 600
SFE-120600-01	60.0 - 90.0	X 6	10.00 - 15.00	0.0	+3.0	WR-12	+8 / 600
SFE-100600-01	75.0- 110.0	X 6	12.50 - 18.33	-3.0	+3.0	WR-10	+8 / 600
Temperature Range		0 to +50°C					

CUSTOM ORDER

Specify Model Number: SFE-WG NN PO-XX

- XX: Factory Reserve
- PO: Output Power in dBm
- WG: WG Size
- NN: Multiplication Factor

Example: To order a Quadriplier with WR-15 waveguide with 15 dBm output power, specify SFE-150415-XX.