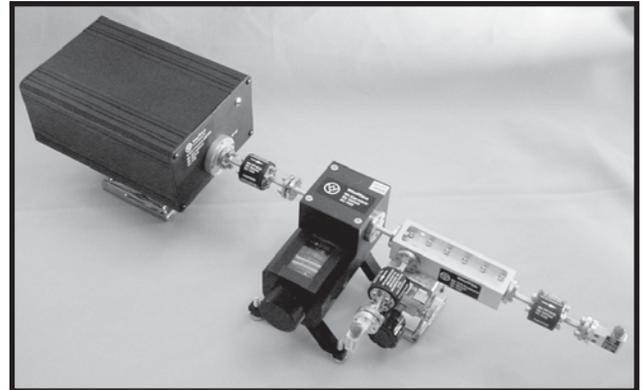


## FEATURES

- ❖ High output power
- ❖ Full waveguide bandwidth
- ❖ Extend MW SNA to MMW bands
- ❖ Output frequency up to 110 GHz

## APPLICATIONS

- ❖ Bench top test set



**SNA Series**

## DESCRIPTION

**SNA** series of scalar network extenders combine high performance millimeterwave amplifiers, passive or active multipliers, filters, Faraday isolators, direct reading attenuator, high directivity directional couplers and high sensitive detectors to extend the low frequency scalar network analyzers, such as HP 8756A or HP 8757A to low cost millimeterwave scalar network analyzers. The scalar network analyzers cover the output frequency range of 26.5 to 110 GHz in six waveguide bands. The typical input power required for these standard units are + 10.0 dBm while the dynamic ranges of these extenders for insertion loss are 30 to 50 dB and return loss is 20 dB to 40 dB. The SMA (F) coaxial connector is equipped for input and standard waveguide for output interface.

## STANDARD PRODUCT SPECIFICATIONS

Model Number	Output Freq. (GHz)	Multipling Factor	Input Freq. (GHz)	Dynamic Range (IL, dB)	Dynamic Range (RL, dB)	Output Waveguide	Bias (V/mA)
SNA-280208-01	26.5 - 40.0	X 2	13.25 - 20.0	40.0	30.0	WR-28	+8 / 200
SNA-280220-01	26.5 - 40.0	X 2	13.25 - 20.0	50.0	40.0	WR-28	+8 / 600
SNA-220305-01	33.0 - 50.0	X 3	11.00-16.67	35.0	25.0	WR-22	+8 / 200
SNA-190305-01	40.0 - 60.0	X 3	13.33 - 20.0	35.0	25.0	WR-19	+8 / 200
SNA-150405-01	50.0 - 75.0	X 4	12.5 - 18.75	35.0	25.0	WR-15	+8 / 600
SNA-120600-01	60.0 - 90.0	X 6	10.0 - 15.00	30.0	20.0	WR-12	+8 / 600
SNA-100600-01	75.0- 110.0	X 6	12.5 - 18.33	30.0	20.0	WR-10	+8 / 600
Temperature Range		0 to +50°C					

## APPLICATION BLOCK DIAGRAM

