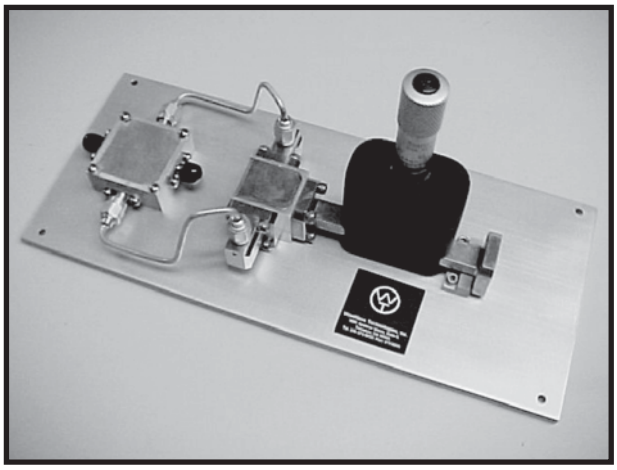
FEATURES

- Low routing loss
- High image rejection
- Separate I/Q input ports
- Low harmonic and spurious emission
- Circular or rectangular waveguide interface



SSA Series

APPLICATIONS

- Radar target simulator
- Single side band modulation
- Forward and backward moving object simulator

DESCRIPTION

SSA series Radar target simulators is a single side band (SSB) modulators, which can simulate the moving Radar target for Doppler Radar system testing. The simulator can eliminate expensive and time consuming field test for most Doppler/ speed Radar manufacturers. The modulators are available in major Doppler Radar frequency bands, such as K band (24.15 GHz), Ka band (35 GHz), V band (60 GHz), and W band (77 GHz and 94 GHz).

The simulators are capable of simulating the approching and receding moving target by varying the relative phase of I and Q channel audio input signals, the speed of the target by adjusting the audio input frequency and the size and/or distance of the target by adjusting the attenuator value.

The existing product specifications are illustrated as following. Other frequency bands are available up request.

SPECIFICATIONS

Typical Specifications (Single Channel)					
Parameters	SSA-4212-XX	SSA-2812-XX	SSA-1513-XX	SSA-1214-XX	SSA-1015-XX
Frequency (GHz)	24.150	35.50	60.00	76.50	94.00
Bandwidth (MHz)	+/- 50	+/- 75	+/- 100	+/- 100	+/- 100
Routing Loss (dB)	12 dB	12 dB	13 dB	14 dB	15 dB
Image Rejection (dBc)	-20	-20	-20	-20	-20
Attenuation Level (dB)*	30	30	30	30	30
I/Q Driven Current (mA)	10	10	10	10	10
RF Connector	WR-42 or Circular	WR-28 or Circular	WR-15 or Circular	WR-10 or Circular	WR-10 or Circular
I/Q Connectors	SMA (F)	SMA (F)	SMA (F)	SMA (F)	SMA (F)
Temperature Range	0 to +50°C				

* **Note:** 60-dB round trip.