



Features

- Circular Polarization
- Wide Beamwidth
- Broadband
- Integrated Design of Antenna and Filter
- High Isolation
- High Integration Density

Applications

Test & Measurement	Radar	Military and Space	Satellite
Microwave Radio Systems		Communication Systems	

Description

The S-band Transmit-Receive Antenna consists of a transmit antenna, a receive antenna, a transmit-band filter and a receive-band filter. The transmit frequency bands are 2X00–2X80 MHz and 3X00–3X00 MHz, while the receive frequency band is 20XX–21XX MHz. It realizes the transmission and reception of right-hand circularly polarized (RHCP) and left-hand circularly polarized (LHCP) signals. The isolation between transmit and receive channels is 58 dB. The product design with SMA Female RF interfaces.

Technical Specifications

Parameters	TX	RX	Units
Frequency Range	2X00 – 2X80 , 3X00 – 3X00	20XX – 21XX	MHz
VSWR	≤ 2	≤ 2	
Gain	≥ -3 dBi @ $\pm 65^\circ$ ≥ 7 dBi @ boresight	≥ -3 dBi @ $\pm 65^\circ$ ≥ 7 dBi @ boresight	dBi
Axial Ratio	≤ 2.5 @ boresight	≤ 2.5 @ boresight	dB
Tx-Rx Isolation	Tx to Rx rejection ≥ 58	Rx to Tx rejection ≥ 58	dB
Polarization	RHCP	LHCP	



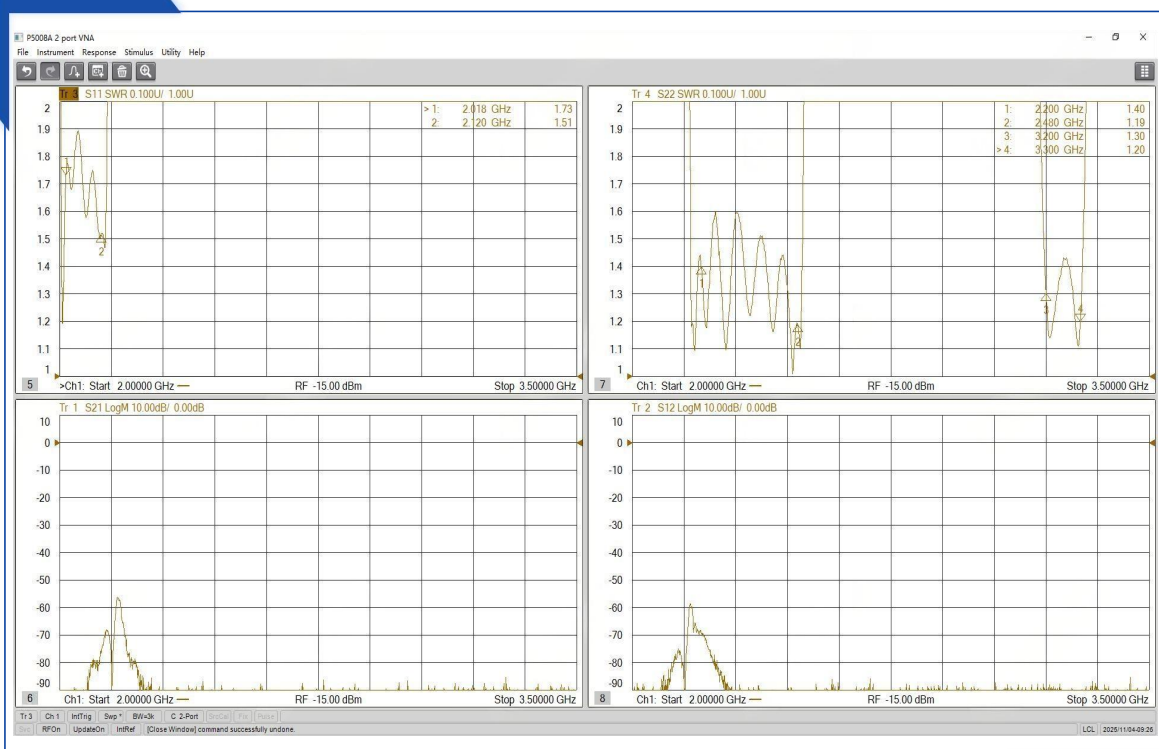
Technical Specifications

Parameters	TX		RX	Units
Element Dimensions	200 × 108.2 × 75.8			mm
Surface Treatment	Paint (aircraft gray)			
Port Connector	SMA Female		SMA Female	
Operating Temperature Range	-40 ~ +55			°C

Notes:

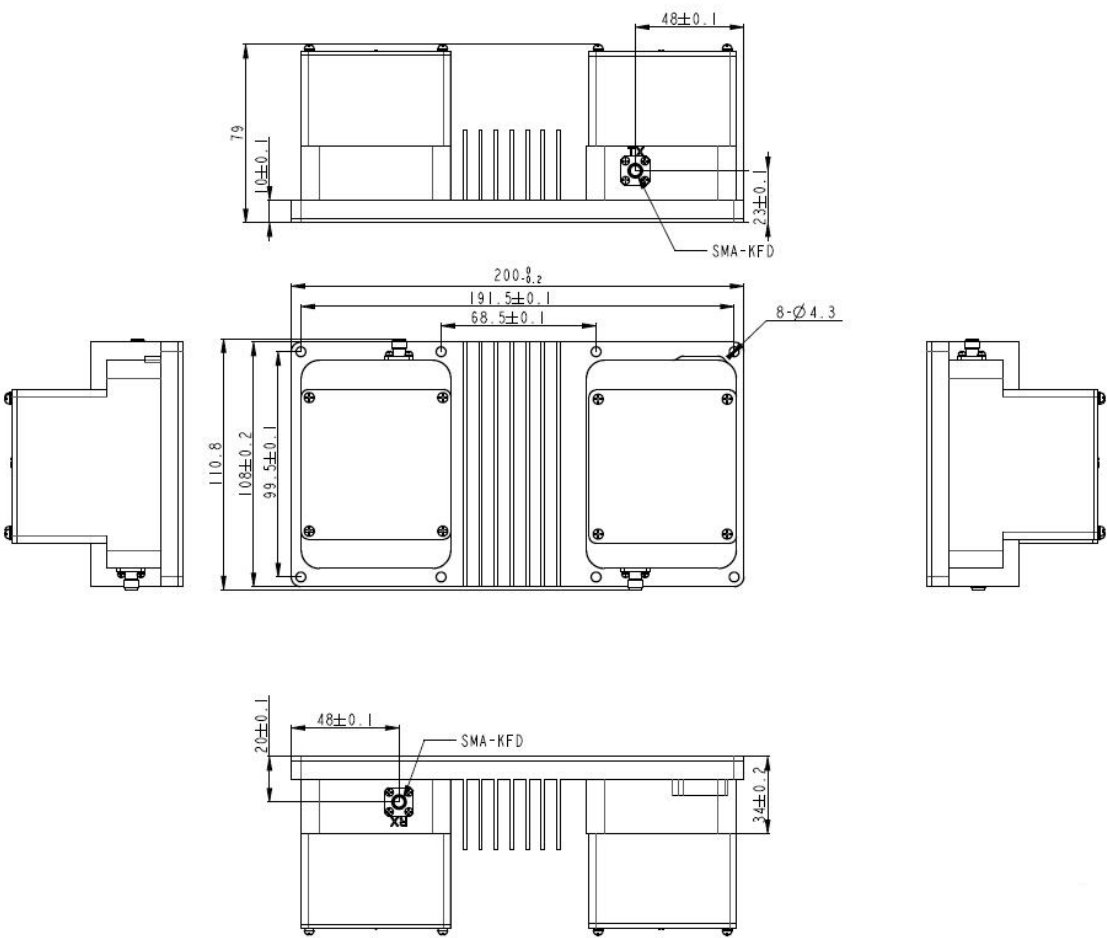
Values at 25°C, sea level.

Typical Performances



Performance Test Curve

Outline Drawing:



- NOTES:**
- 1.UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 - 2.ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 - 3.DIMENSIONS ARE IN mm.

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