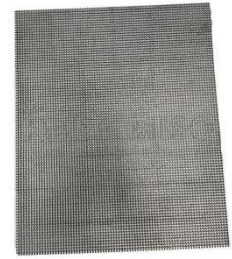


Ka-band Dual-polarized Planar Phased Array Antenna



Planar Antenna Data Sheet

RM-PA2640-35

Description

RF Miso's RM-PA2640-35 has ultra-wide-angle scanning capability, excellent polarization characteristics, ultra-high transmit-receive isolation, and highly integrated lightweight design, and is used in electronic warfare, precision radar guidance and other fields.

Specifications

RM-PA2640-35		
Parameter	Specification	Remark
Frequency Range	26.5-40GHz	Tx and Rx
Array Gain	Transmit: $\geq 36.5\text{dBi}$ Receive: $\geq 35.5\text{dBi}$	full frequency band, $\pm 60^\circ$ scanning range
Polarization	Transmit: RHCP Receive: LHCP	add a polarizer, bridge, or active chip to achieve this
AR	Normal: $\leq 1.0\text{dB}$ Off-axis within 60° : $\leq 4.0\text{dB}$	
Number of Linear Array Channels	Horizontal Polarization: 96 Vertical Polarization: 96	
Transmit/Receive Port Isolation	$\leq -65\text{dB}$	including transmit and receive filters
Elevation Scan Range	$\pm 60^\circ$	
Beam Pointing Accuracy	$\leq 1/5$ beamwidth	full frequency band full angle range
Size	500*400*60(mm)	electronically scanned along a 500mm width
Weight	$\leq 10\text{Kg}$	