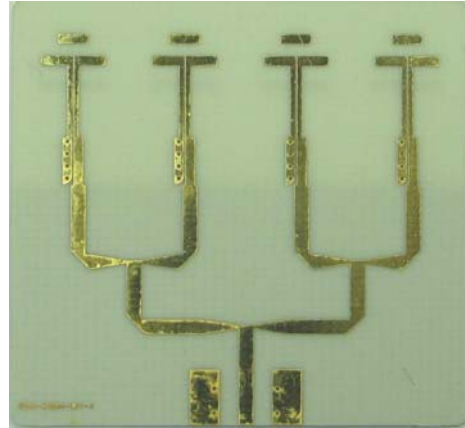


QYA-20T28G-04

Ultra-wideband Quasi-Yagi Antenna Array

Description

The QYA-20T28G-04 is an ultra-wideband quasi-Yagi antenna array. This antenna array utilizes our company's patented ultra-wideband balun, which enables low-cost implementation. This antenna covers the frequency range of 20 to 28 GHz with high gain and low sidelobes. Quasi-Yagi antenna arrays capable of producing customer-specific gain and bandwidth are also available.



Applications

- ✓ 24 GHz Collision Avoidance
- ✓ Automotive Radar Systems
- ✓ Communication Systems
- ✓ Sensor Sub-assemblies
- ✓ Radiometers

Features

- ✓ 4 element antenna array
- ✓ Ultra-Wideband
- ✓ High Gain
- ✓ Low Sidelobes
- ✓ Low VSWR
- ✓ Size: 38 x 35 mm

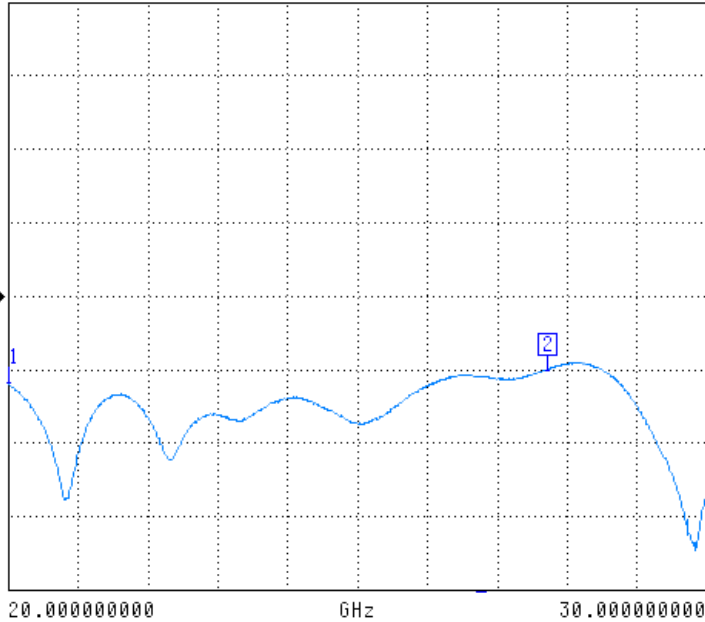
Electrical Specifications

Parameter	Units	Min.	Typ.	Max.
Frequency Range	GHz	20	-	28
Gain	dBi	8	9	10
Beamwidth	deg	7	18	11
Sidelobe level	dBc	11	12	13

Return Loss

S11 FORWARD REFLECTION

LOG MAGNITUDE REF=0.000 dB 10.000 dB/DIV



CH 4 - S11
0.0000 mm REF
0.000 dB OFFSET
0.00° OFFSET

MARKER 2
27.712500000 GHz
-10.107 dB

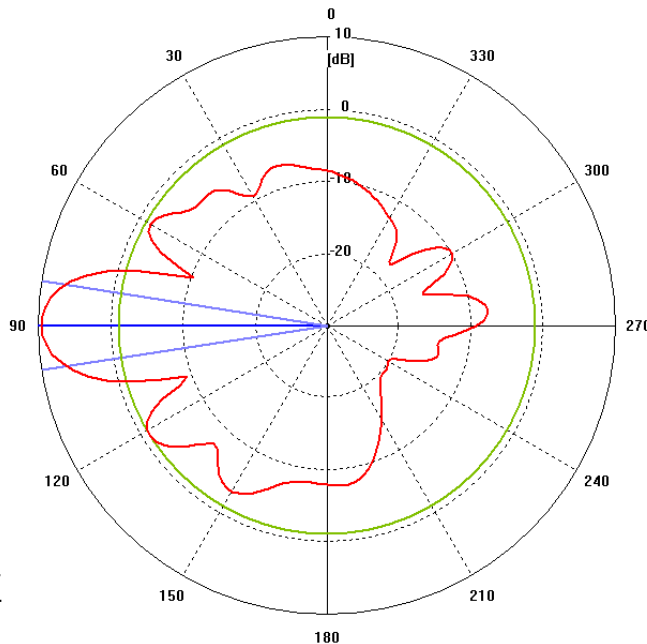
MARKER TO MAX
MARKER TO MIN

1 20.000000000 GHz
-11.936 dB

MARKER READOUT
FUNCTIONS

Radiation Pattern at 24 GHz (E-plane)

Farfield 'farfield (f=24) [1]' Gain_Abs(Phi); Theta= 90.0 deg.



Frequency = 24
Main lobe magnitude = 9.7 dB
Main lobe direction = 90.0 deg.
Angular width (3 dB) = 17.9 deg.
Side lobe level = -10.7 dB