Suzhou Talent Microwave,Inc
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Dual Circularly Polarized Horn Antenna

2.92mm Female/26.5-40GHz/20dBi Min, Gain Model:TL-28DCPHA20K

TL-28DCPHA20K is a dual circularly polarized horn antenna that operates from 26.5 to 40GHz, The antenna offers 20dBi minimum gain. The antenna VSWR is 1.5:1 typical. The antenna RF port configuration offers coax adapter structure with 2.92mm female. It can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

Features:

- Operating Frequency 26.5 to 40GHz
- Gain: 20dBi Min
- Dual Circularly Polarization

Applications:

- Radar Systems
- Communication Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	26.5		40	GHz
Gain		20		dBi
Polarization mode		Dual Circularly		
Input VSWR		1.5		:1
Axial Ratio		1.08		dB
Average Power		20		W
Peak Power		40		W

Physical Characteristics:

Description	Parameter	Units
Material	Aluminum	
Finish	Paint	
Connectors	2.92mm Female	
Size	170*59.5*68	mm
Weight	0.161	Kg

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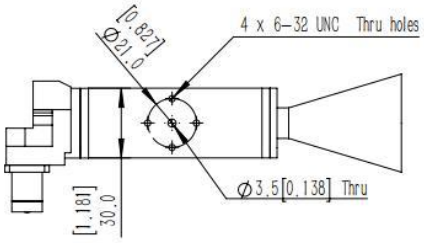
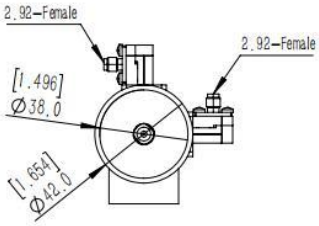
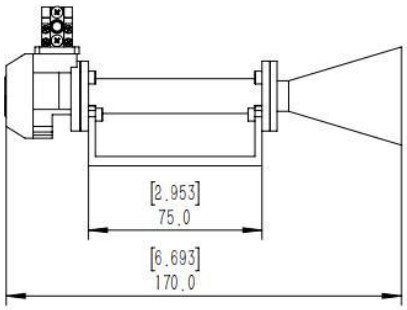
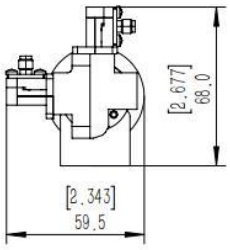
Outline Drawing:

Unit:mm; Tolerance:±5mm









ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

Base Number	Description	Revision
TL-28DCPHA20K	Dual Circularly Polarized Horn Antenna, 26.5-40GHz,Gain: 20dBi Min,2.92mm Female	Rev.1.0

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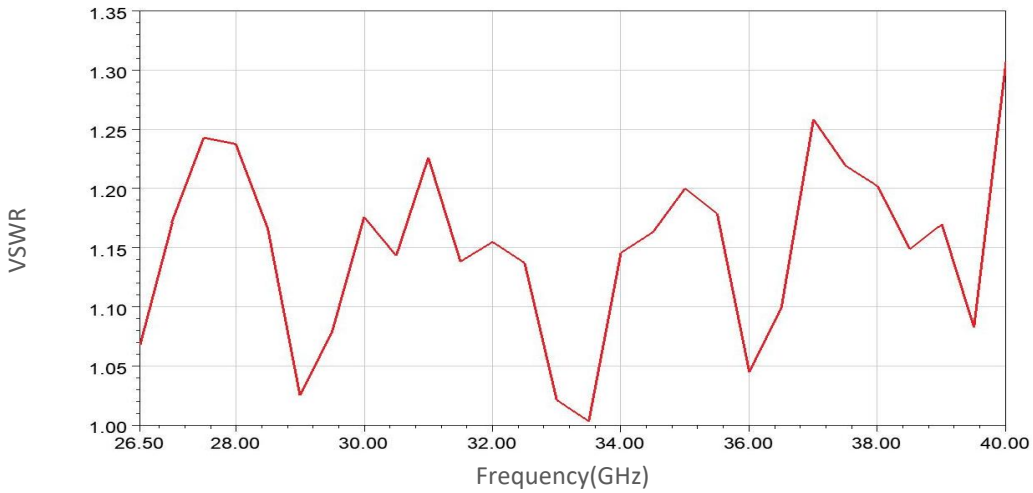
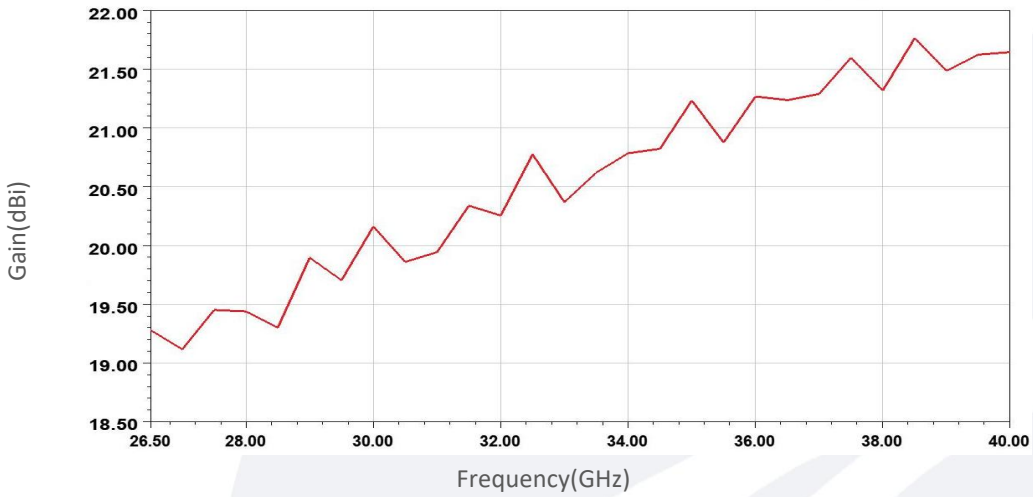
Typical Performance Data:

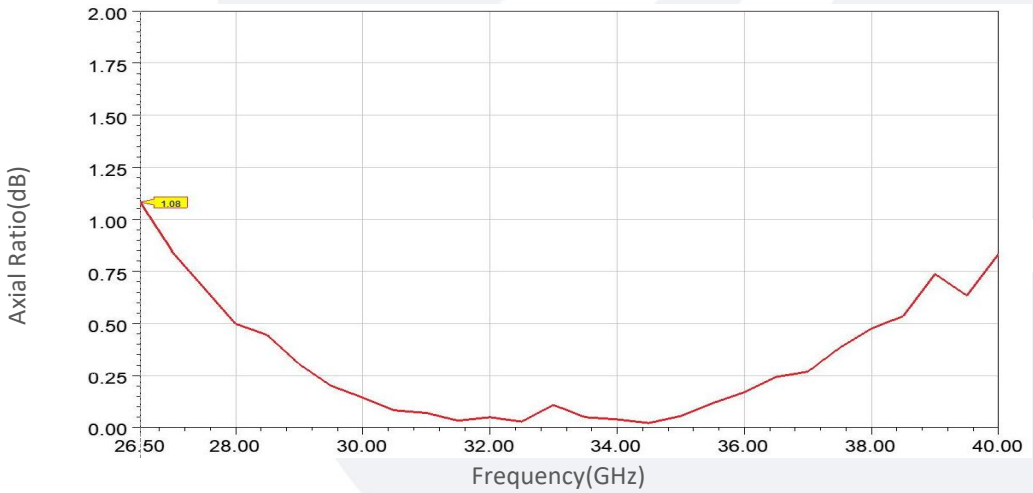
VSWR vs Frequency



Gain vs Frequency



Axial Ratio vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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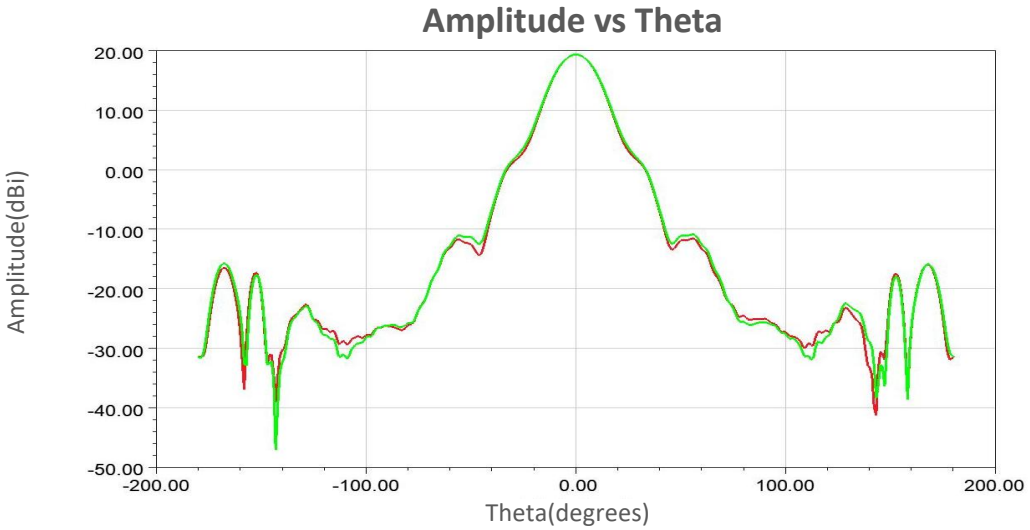
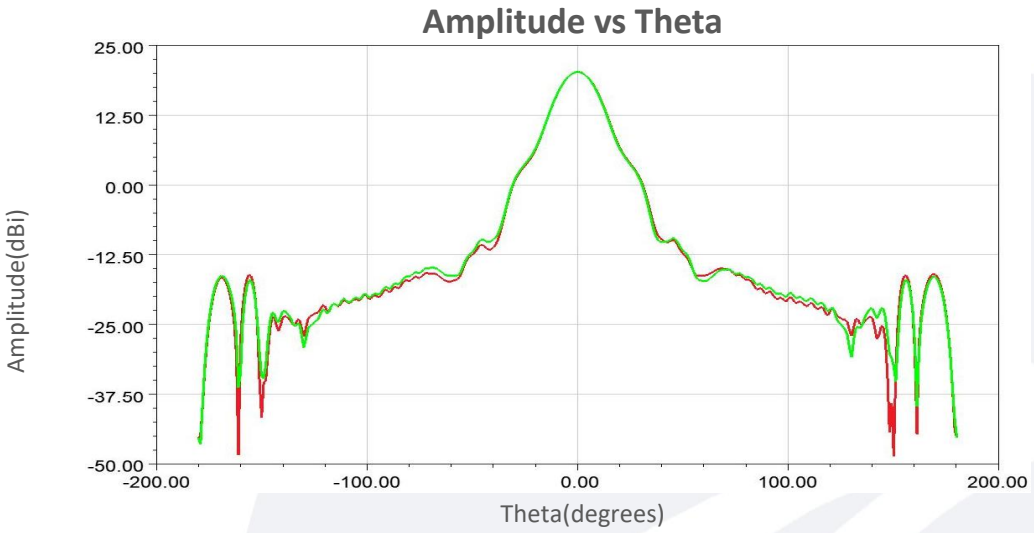
Typical Performance Data:

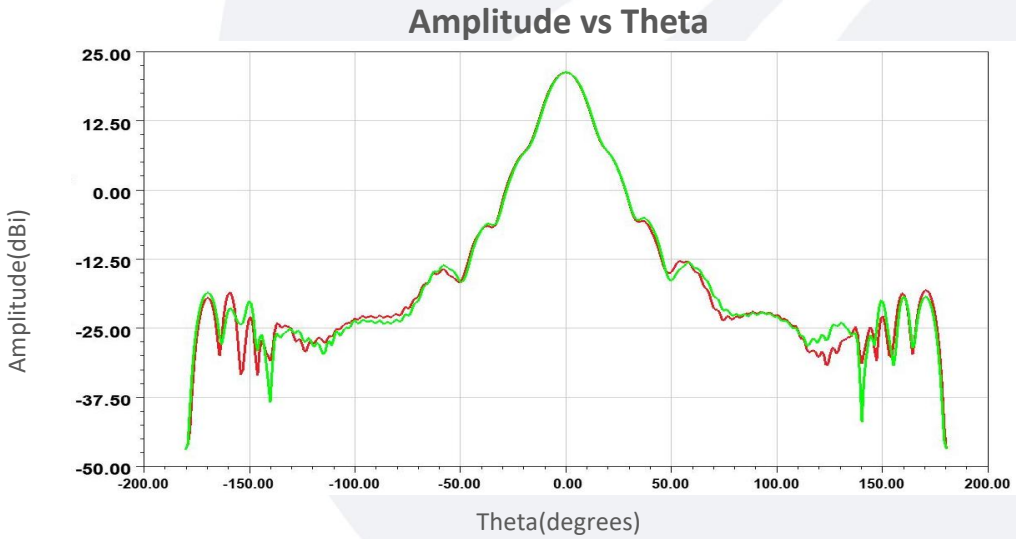
26.5GHz:



30GHz:



35GHz:



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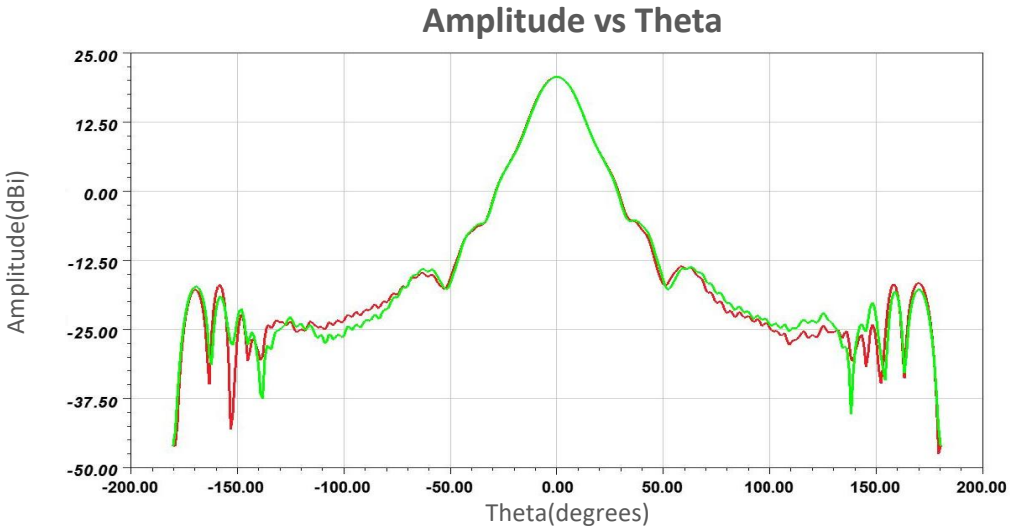
Typical Performance Data:

40GHz:



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