

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

电气特性 Electrical Characteristics:

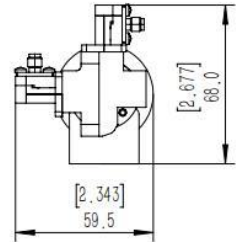
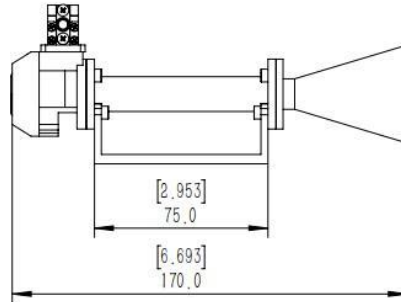
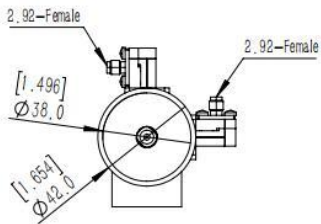
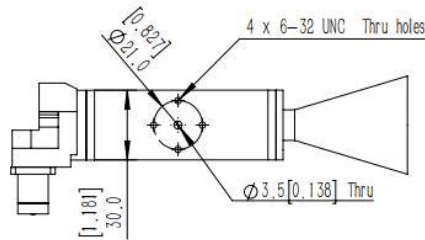
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	26.5		40	GHz
增益 Gain		20		dBi
极化方式 Polarization mode	Dual Circularly			
驻波 Input VSWR		1.5		:1
轴比 Axial Ratio		1.08		dB
平均功率 Average Power		20		W
峰值功率 Peak Power		40		W

机械特性 Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
材质 Material	Aluminum	
表面处理 Finish	Paint	
接口 Connectors	2.92mm Female	
尺寸 Size	170*59.5*68	mm
重量 Weight	0.161	Kg

外形图 Outline Drawing:

Unit:mm; Tolerance:±5mm



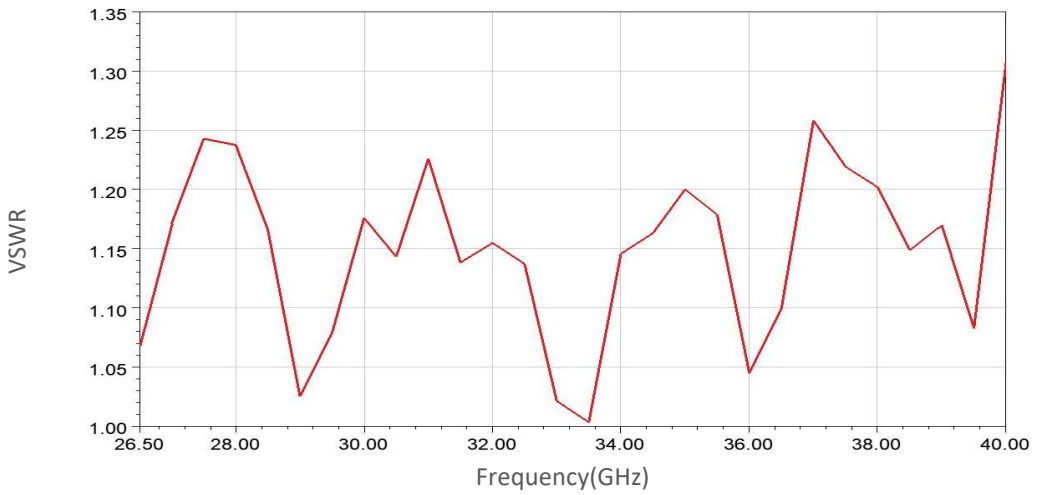
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

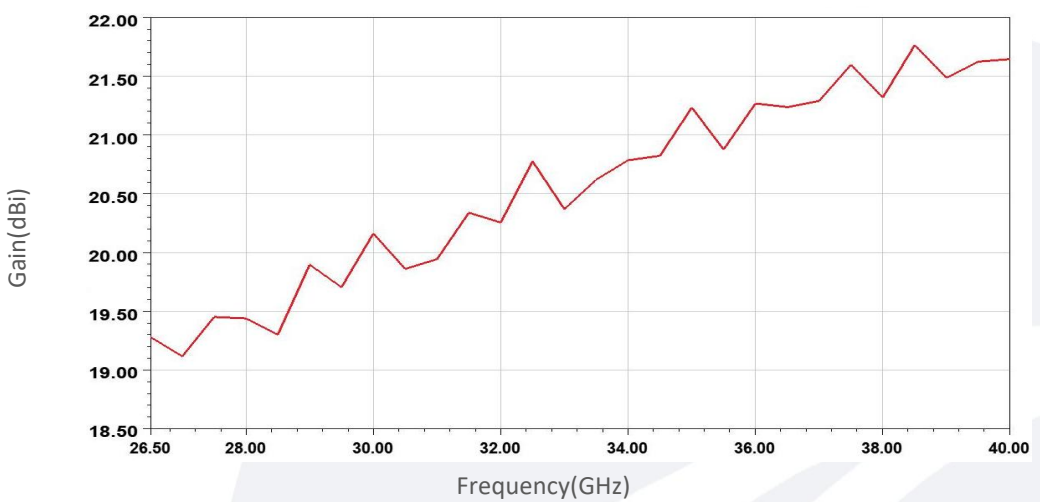
标准型号 Base Number	描述 Description	版本号 Revision
TL-28DCPHA20K	Dual Circularly Polarized Horn Antenna, 26.5-40GHz, Gain: 20dBi Min, 2.92mm Female	Rev.1.0

典型曲线 Typical Performance Data:

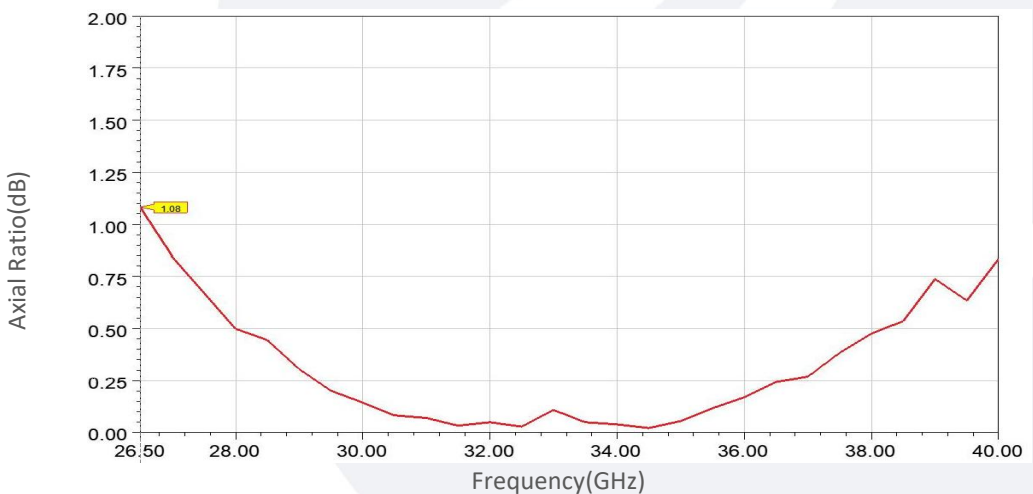
VSWR vs Frequency



Gain vs Frequency



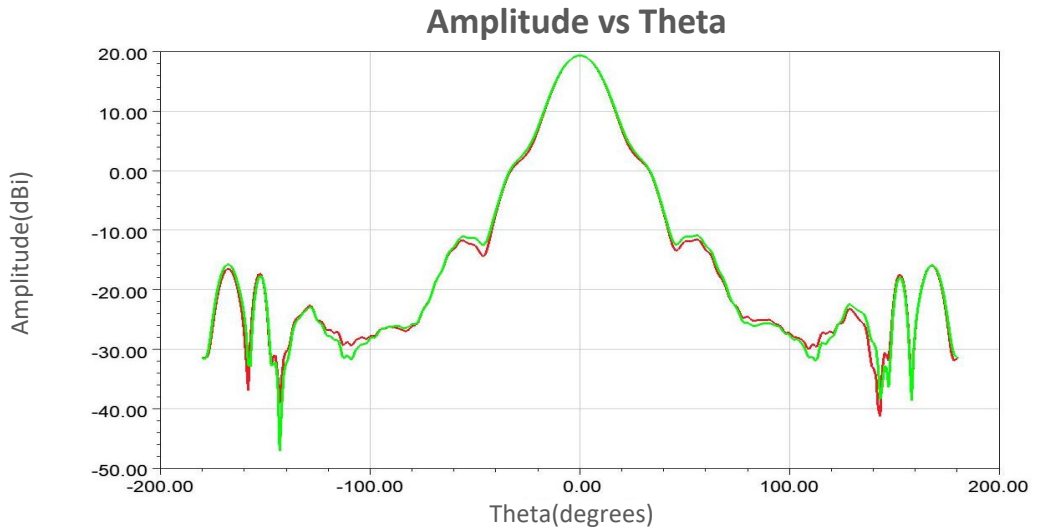
Axial Ratio vs Frequency



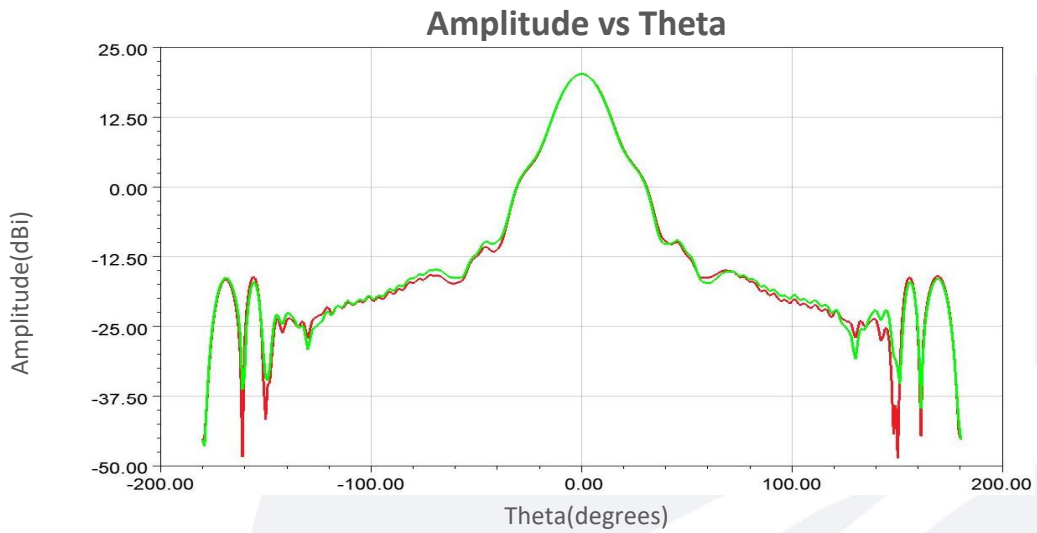
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

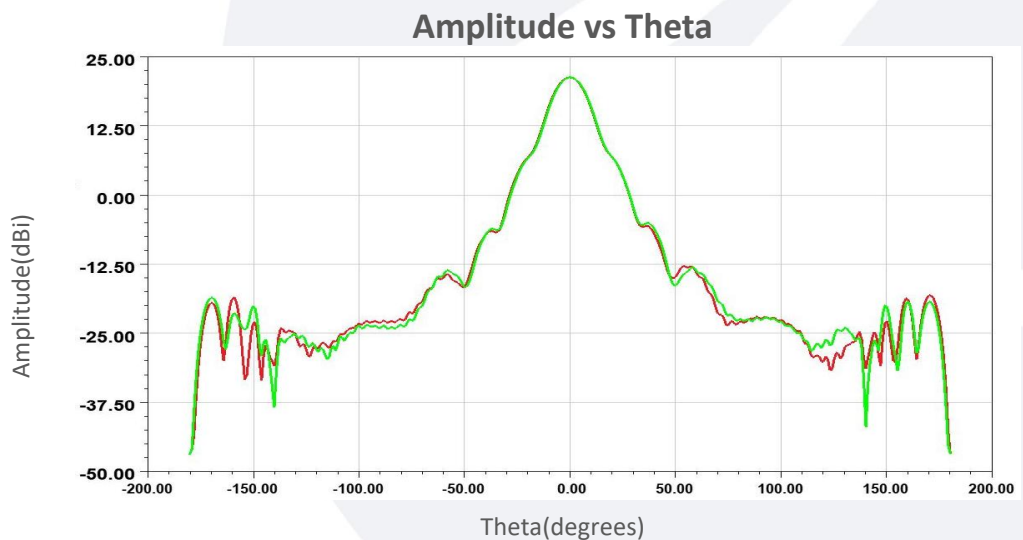
26.5GHz:



30GHz:



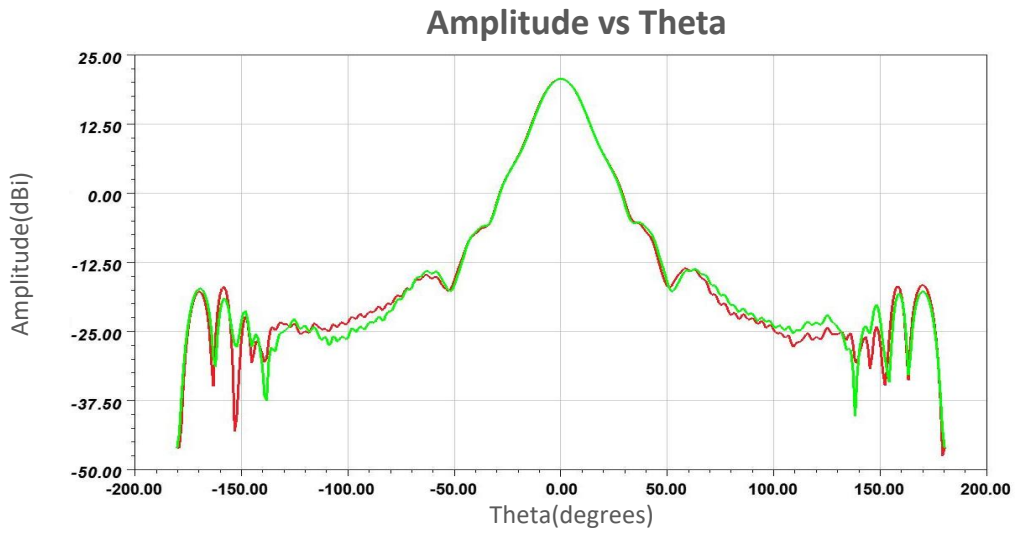
35GHz:



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.

典型曲线 Typical Performance Data:

40GHz:



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.