

Dual Ridged Horn Antenna

N Female/0.7-18GHz/10dBi Typ, Gain

Model:TL-07180DRHA10N

TL-07180DRHA10N is a dual ridged horn antenna, its operating frequency range from 0.7 GHz to 18 GHz. It provides a nominal gain of 10 dB. At the center frequency, the 3 dB beamwidth on the E plane is 38.5 degrees, and on the H plane is 31.4 degrees. The antenna supports linear polarization. The input port configuration offers coax adapter structure with N female.

Features:

- Operating Frequency 0.7 to 18GHz
- Gain: 10dBi Typ
- Linear Polarization

Applications:

- Radar Systems
- Communication Systems

电气特性 Electrical Characteristics:

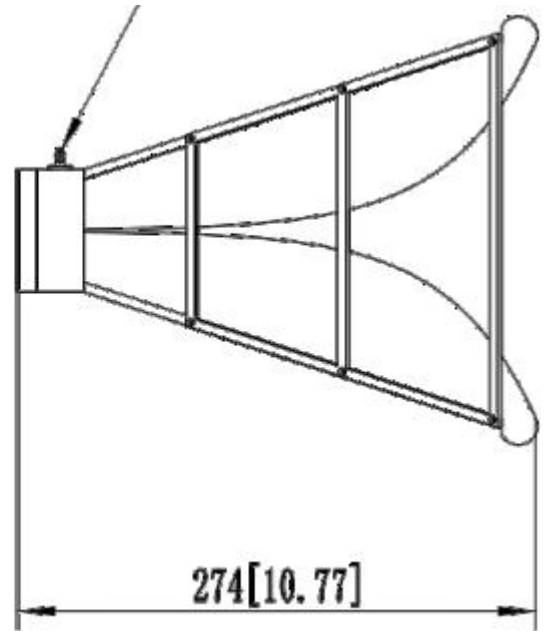
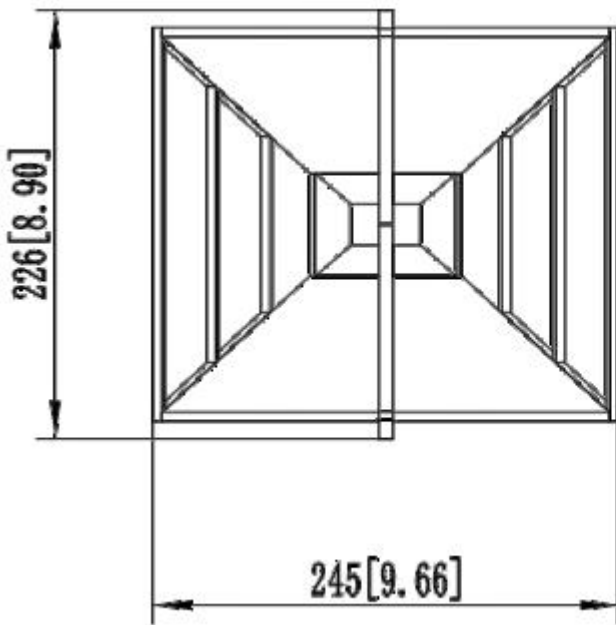
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	0.7		18	GHz
增益 Gain		10		dBi
驻波 Input VSWR			2.5	:1
波束宽度 Beamwidth		E: 38.5; H: 31.4		°
极化方式 Polarization mode		Linear		

机械特性 Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
操作温度 Operating Temperature	-40~+85	°C
材质 Material	Aluminium	
表面处理 Finish	True color conductive oxidation, spray paint	
接口 Connectors	N Female	
尺寸 Size	274*245*226	mm
重量 Weight	2.35	Kg

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



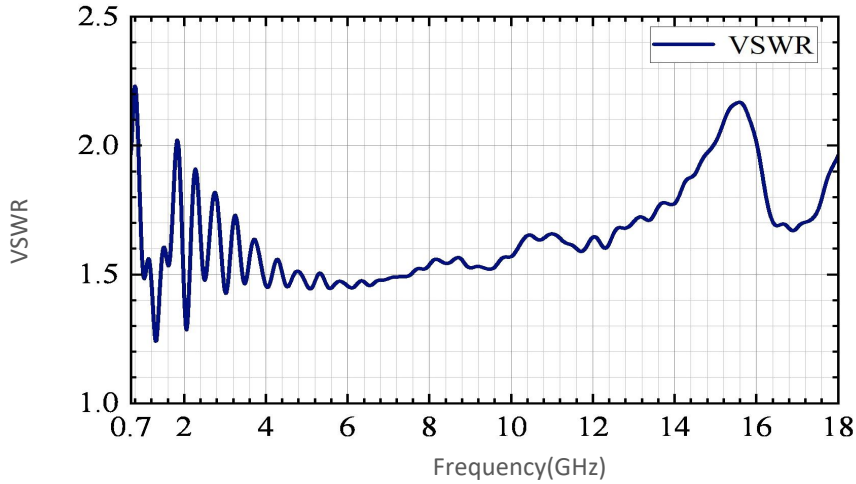
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

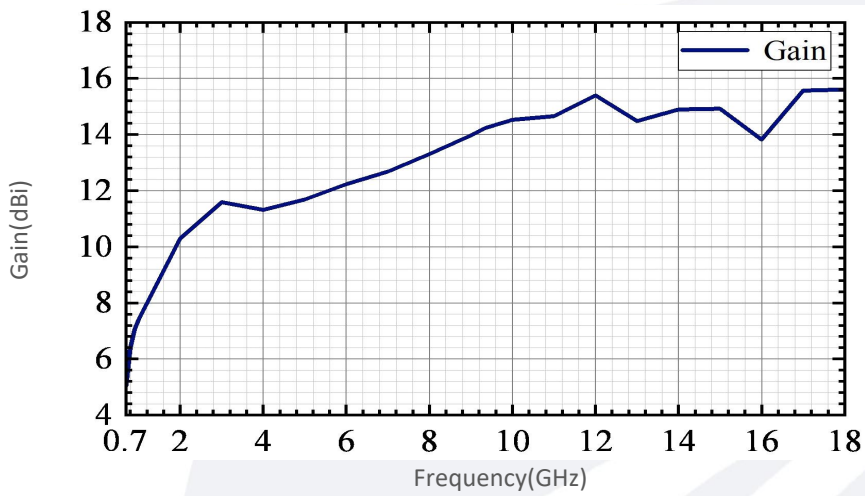
标准型号 Base Number	描述 Description	版本号 Revision
TL-07180DRHA10N	Dual Ridged Horn Antenna, 0.7-18GHz, Gain: 10dBi Typ, N Female	Rev.1.0

典型曲线 Typical Performance Data:

VSWR vs Frequency

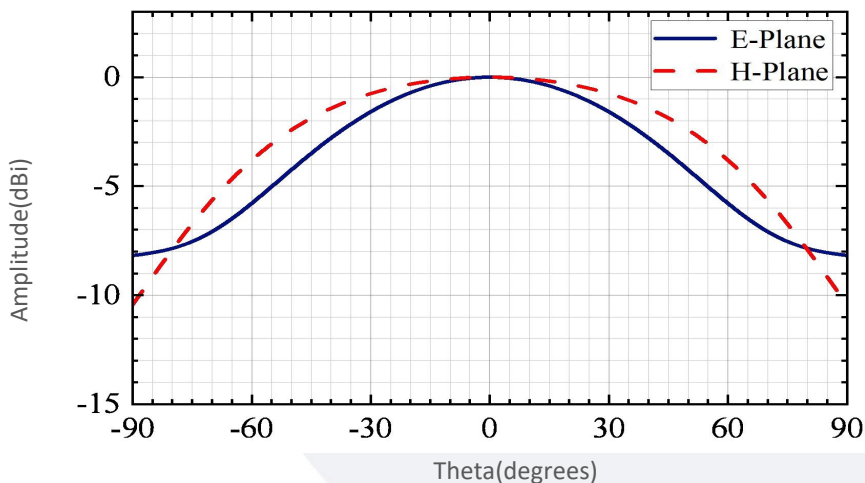


Gain vs Frequency



0.7GHz:

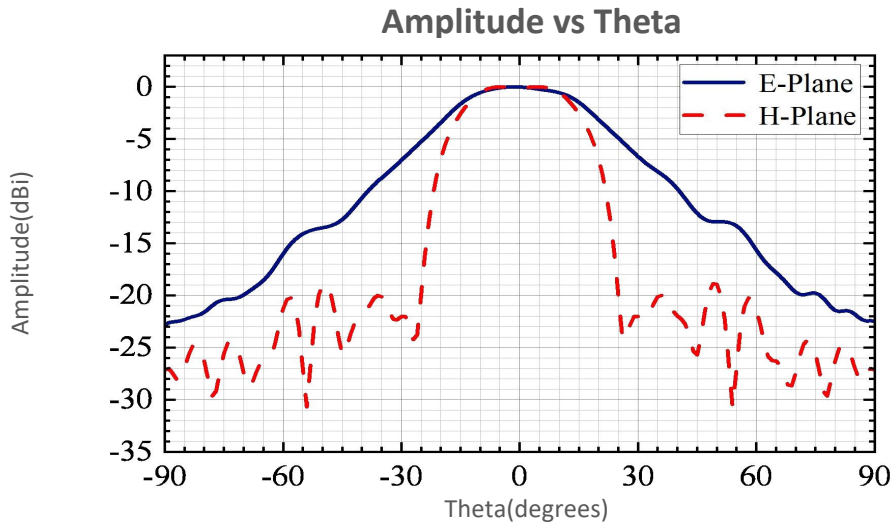
Amplitude vs Theta



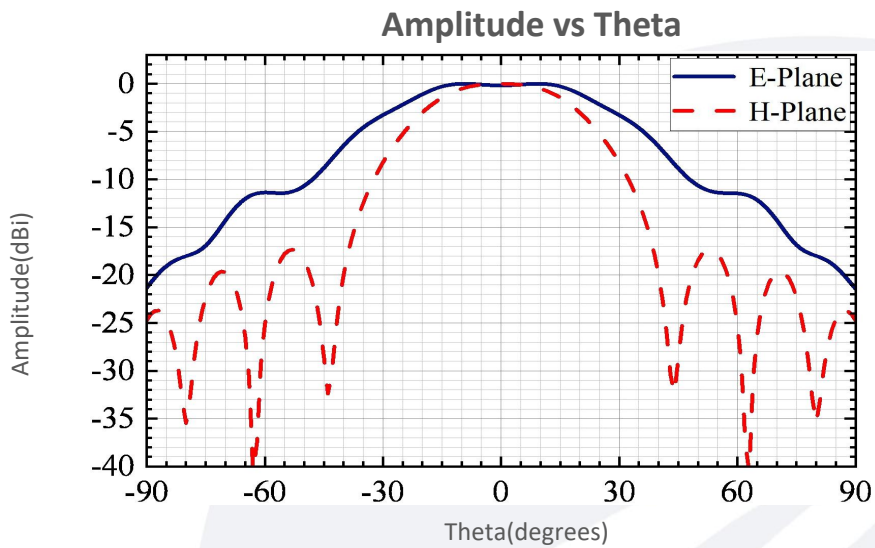
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

9.35GHz:



18GHz:



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.