

Horn Antenna

2.92mm Female/17.6-26.7GHz/20dBi Typ, Gain

Model:TL-42SHAK20

TL-42SHAK20 is a standard gain horn antenna that operates from 17.6 GHz to 26.7 GHz. The antenna offers 20 dBi nominal gain. The input of this antenna configuration offers coax adapter structure with 2.92mm female. The standard gain horn is offered for antenna range calibration purpose mainly, but it can be also used for general purpose system set ups.

Features:

- Operating Frequency 17.6 to 26.7 GHz
- Good Impedance Match

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

电气特性 Electrical Characteristics:

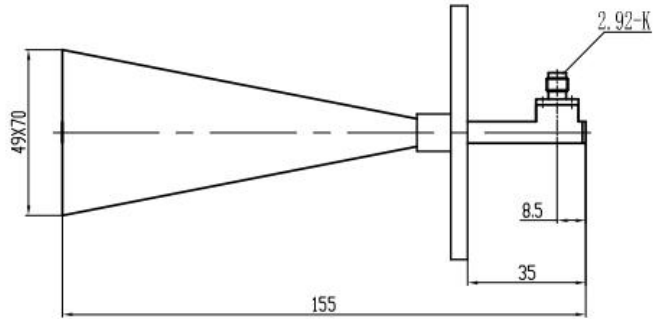
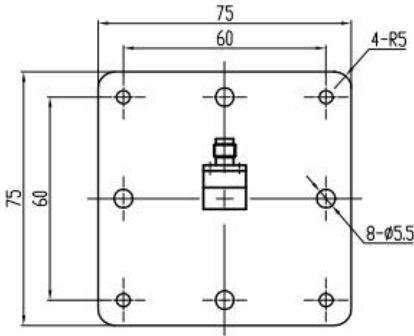
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	17.6		26.7	GHz
增益 Gain		20		dBi
驻波 Input VSWR			1.5	:1

环境和机械特性 Environmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
材质 Material	Aluminium	
表面处理 Finish	Conductive oxidation, Spray sea gray paint	
接口 Connectors	2.92mm Female	
长度 Length	155	mm

外形图 Outline Drawing:

Unit:mm



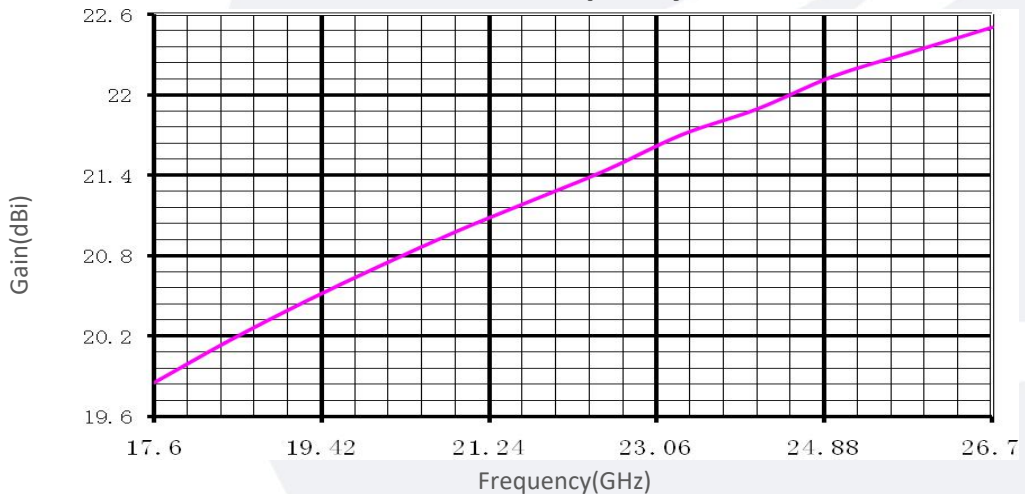
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TL-42SHAK20	Horn Antenna, 17.6-26.7GHz, Gain: 20 dBi Typ.	Rev.1.0

典型曲线 Typical Performance Data:

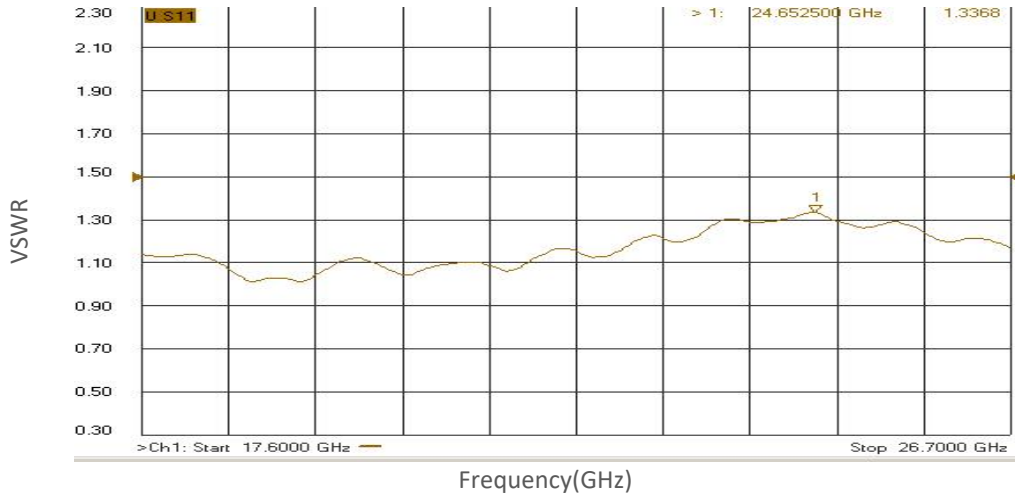
Gain vs Frequency



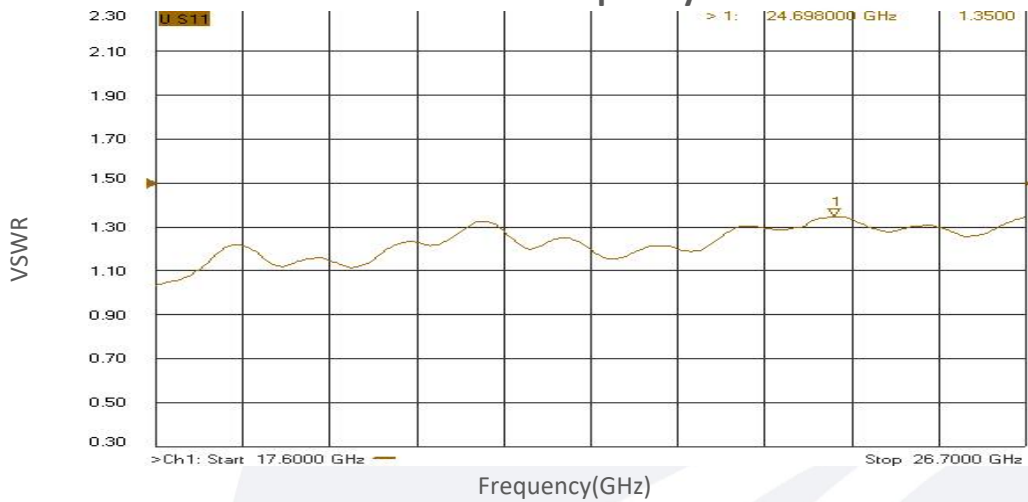
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

VSWR vs Frequency

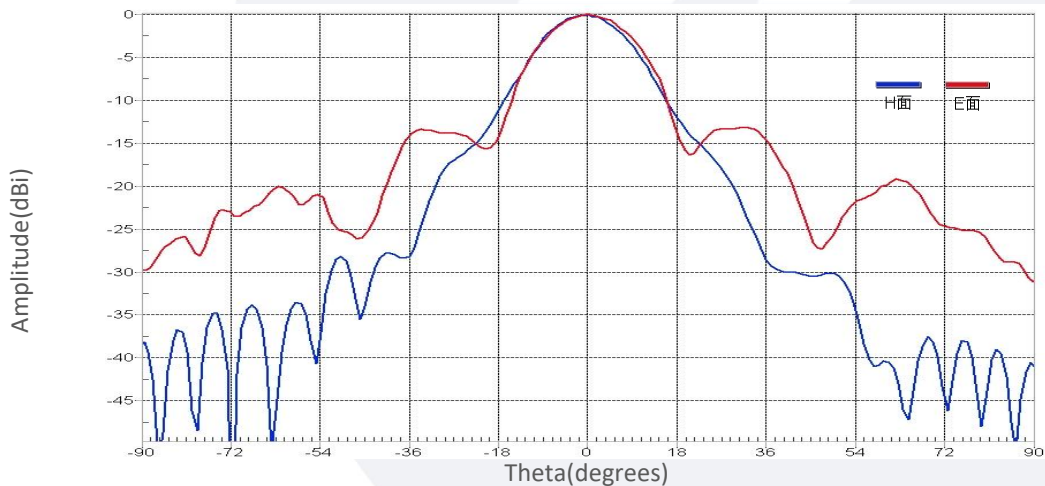


VSWR vs Frequency



17.6GHz:

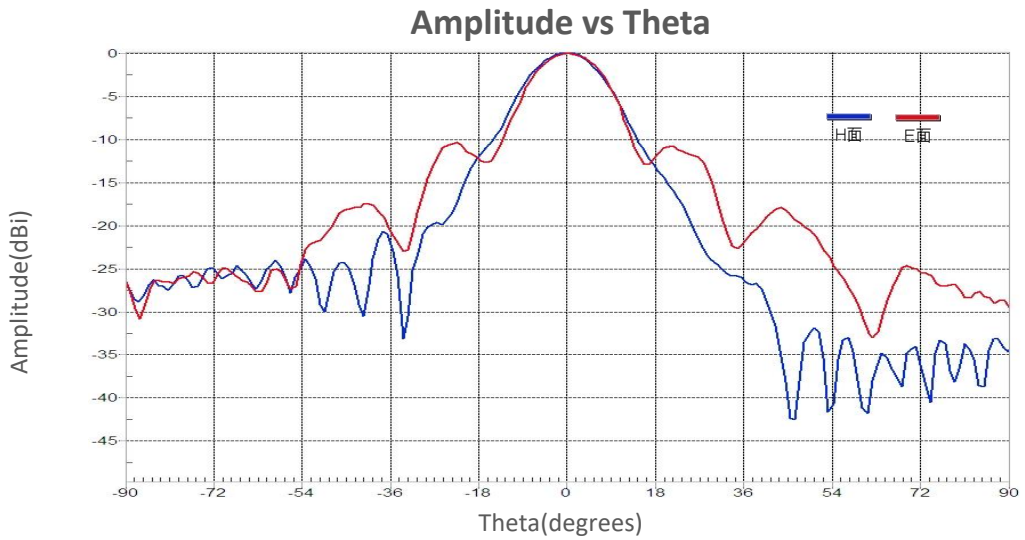
Amplitude vs Theta



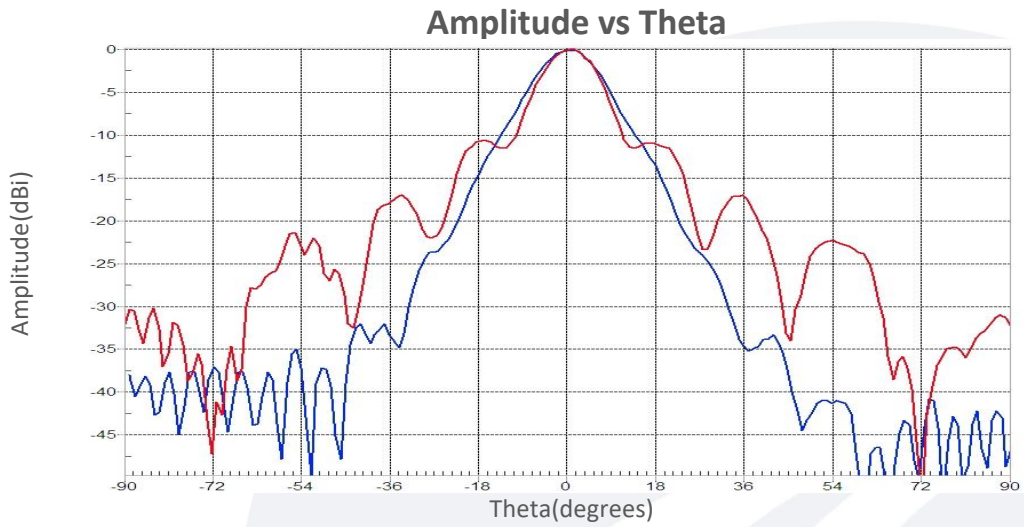
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典型曲线 Typical Performance Data:

22.51GHz:



26.7GHz:



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