

## Horn Antenna

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

Model:TL-42SHAK20

TL-42SHK20 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

### Electrical Characteristics:

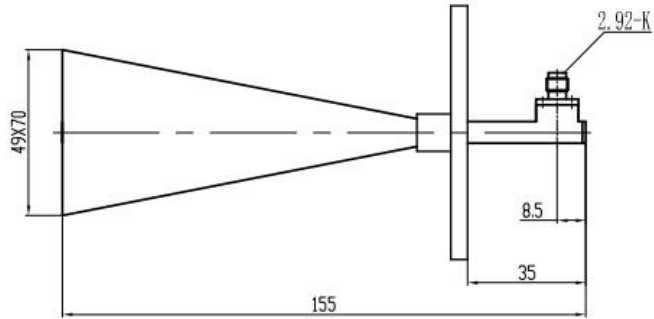
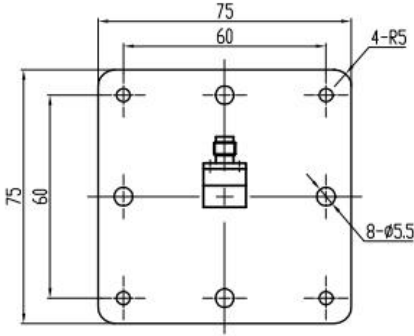
Parameter	Min	Typ	Max	Units
Frequency Range	17.6		26.7	GHz
Gain		20		dBi
Input VSWR			1.5	:1

### Envrionmental And Physical Characteristics:

Description	Parameter	Units
Material	Aluminium	
Finish	Conductive oxidation,Spray sea gray paint	
Connectors	2.92mm Female	
Length	155	mm

**Outline Drawing:**

Unit:mm



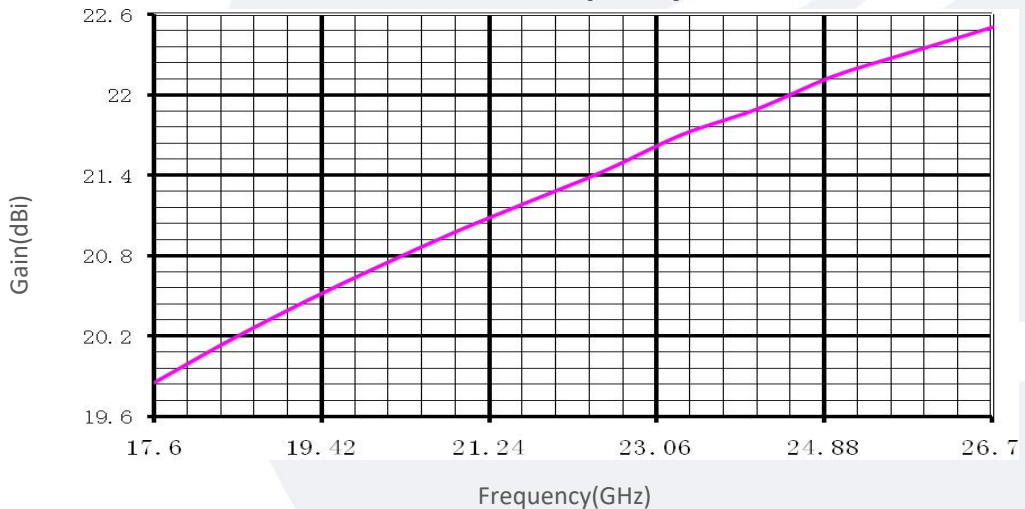
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

**Ordering Information:**

Base Number	Description	Revision
TL-42SHAK20	Horn Antenna, 17.6-26.7GHz, Gain: 20 dBi Typ.	Rev.1.0

**Typical Performance Data:**

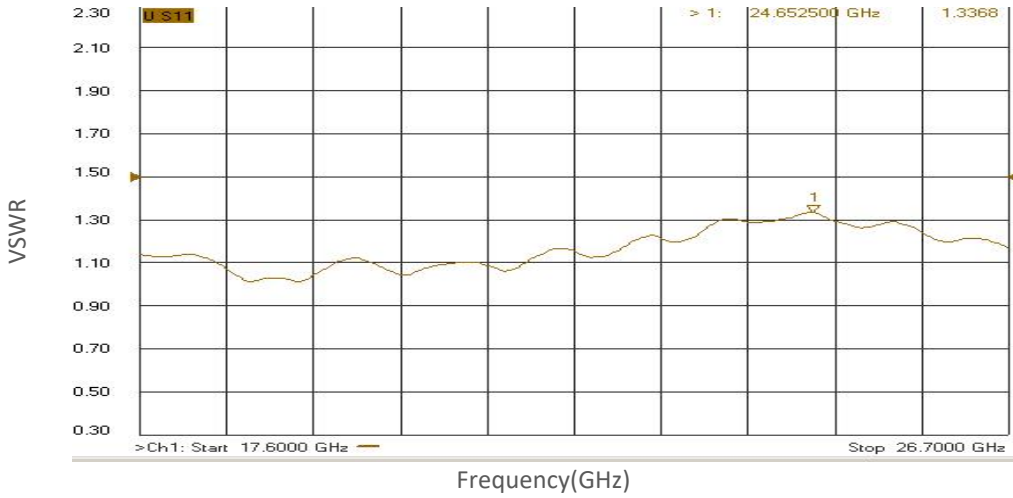
**Gain vs Frequency**



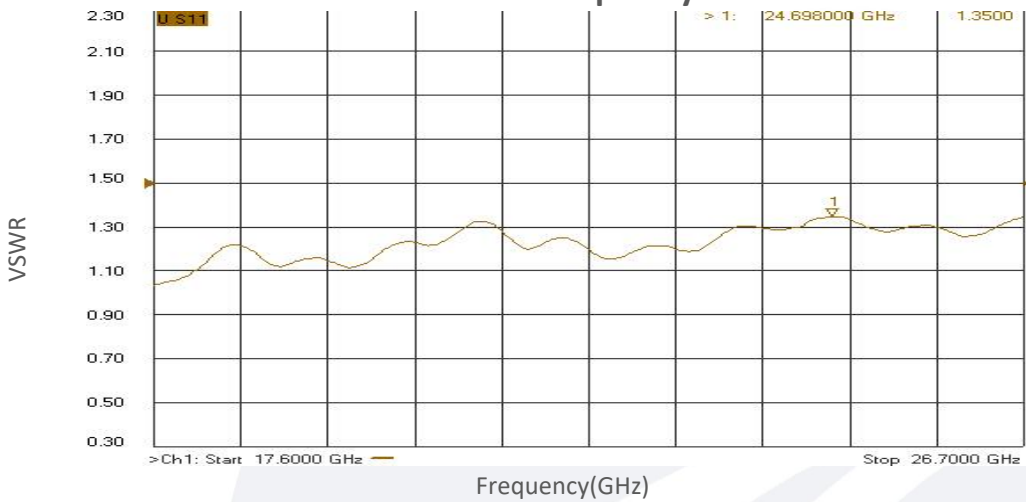
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**Typical Performance Data:**

**VSWR vs Frequency**

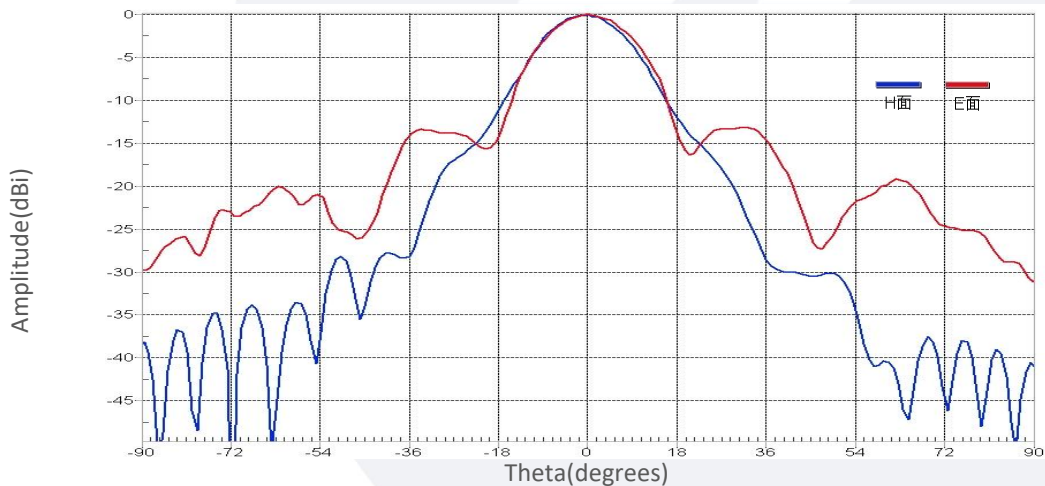


**VSWR vs Frequency**



17.6GHz:

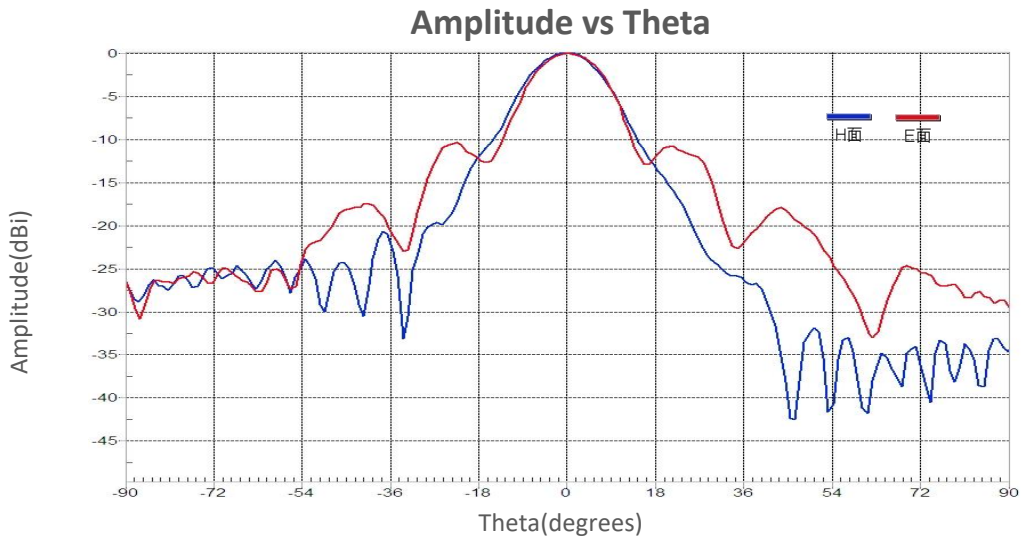
**Amplitude vs Theta**



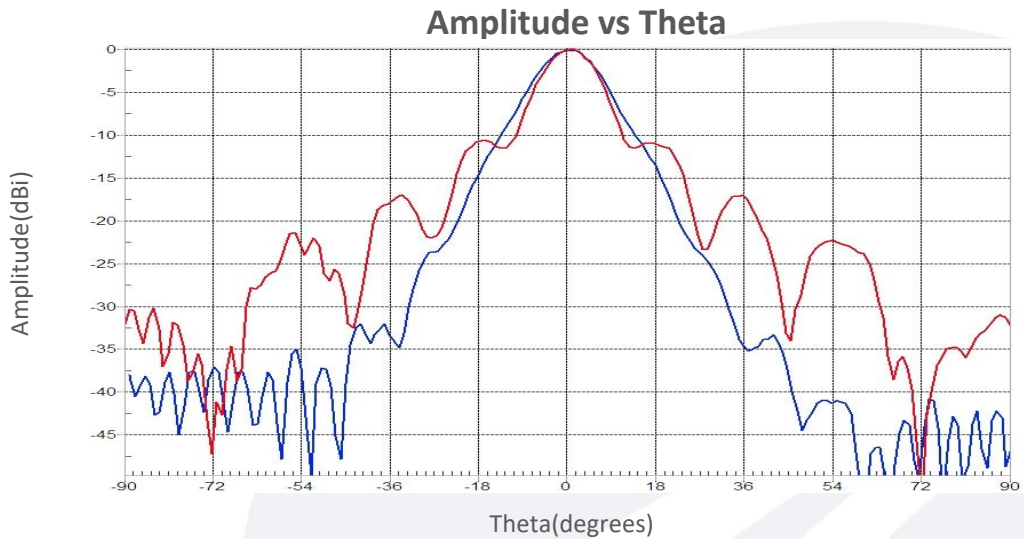
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

## Typical Performance Data:

22.51GHz:



26.7GHz:



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