



CubTEK Antenna Specification

CUBT76500BB101G02

Description:

Model CUBT76500TP106G01 is a microstrip antenna that operate from 76 GHz to 77 GHz. The antenna offers 20.99 dB nominal gain, a typical half power beamwidth of 12 degrees on E-plane and 14 degrees on H-plane at 76.5 GHz.

Company name: BOARDTEK ELECTRONICS CORPORATION

Address: No.16, Jingjian 1st Road, Guanyin Industrial Park,
Guanyin District, Taoyuan City, Taiwan.

This antenna supports linear polarized waveforms.

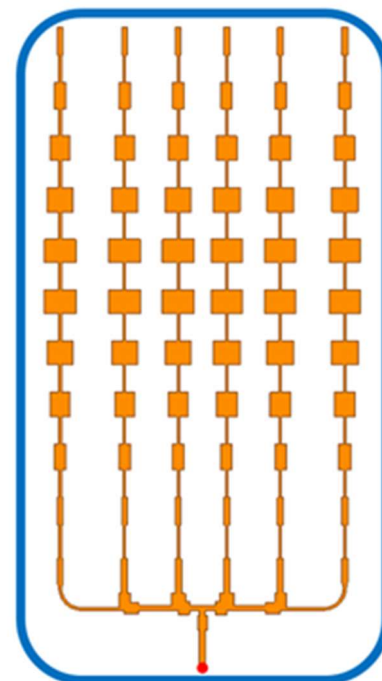
Features:

- High Gain
- Linear Polarization

Applications:

- Automotive Radar

Electrical Specifications:



• Port Location

Parameters	Minimum	Typical	Maximum
Frequency		76.5 GHz	
Gain		20.99 dB	
Polarization		Linear	
3 dB Beamwidth, E-plane		12 deg	
3 dB Beamwidth, H-plane		14 deg	
Side Lobe, E-plane		19.3 dB	
Side Lobe, H-plane		18.29 dB	
Return Loss		-19.93 dB	

Mechanical Specifications:

Item	Specification
RF-Material	RO3003-G2 (5mil) (5mil)(DK:3.01)(DF:0.003)
Size	27.208mm(L) × 14.083mm(W) × 0.05mm(T)

Description:

Model CUBT76500TP102G01 is a microstrip antenna that operate from 76 GHz to 77 GHz. The antenna offers 16.92 dB nominal gain, a typical half power beamwidth of 10 degrees on E-plane and 48 degrees on H-plane at 76.5 GHz.

This antenna supports linear polarized waveforms.

Features:

- High Gain
- Linear Polarization

Applications:

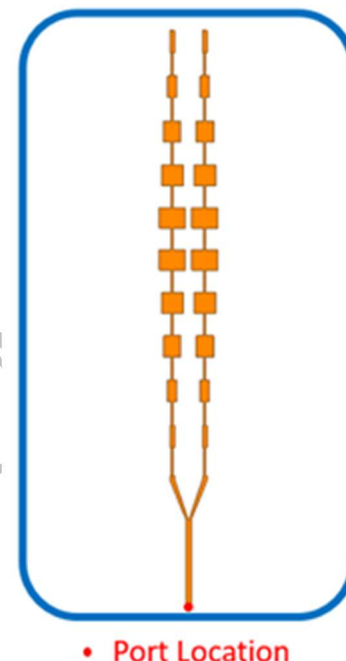
- Automotive Radar

Electrical Specifications:

Parameters	Minimum	Typical	Maximum
Frequency		76.5 GHz	
Gain		16.92 dB	
Polarization		Linear	
3 dB Beamwidth, E-plane		10 deg	
3 dB Beamwidth, H-plane		48 deg	
Side Lobe, E-plane		23 dB	
Side Lobe, H-plane		X	
Return Loss		-23.7 dB	

Mechanical Specifications:

Item	Specification
RF-Material	RO3003-G2 (5mil) (5mil)(DK:3.01)(DF:0.003)
Size	26.1318mm(L) × 3.1429mm(W) × 0.05mm(T)



Description:

Model CUBT76500TP106G01 is a microstrip antenna that operate from 76 GHz to 77 GHz. The antenna offers 20.99 dB nominal gain, a typical half power beamwidth of 12 degrees on E-plane and 14 degrees on H-plane at 76.5 GHz.

This antenna supports linear polarized waveforms.

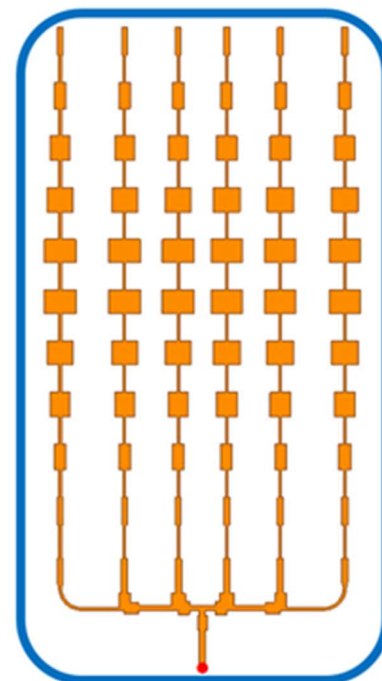
Features:

- High Gain
- Linear Polarization

Applications:

- Automotive Radar

Electrical Specifications:



• Port Location

Parameters	Minimum	Typical	Maximum
Frequency		76.5 GHz	
Gain		20.99 dB	
Polarization		Linear	
3 dB Beamwidth, E-plane		12 deg	
3 dB Beamwidth, H-plane		14 deg	
Side Lobe, E-plane		19.3 dB	
Side Lobe, H-plane		18.29 dB	
Return Loss		-19.93 dB	

Mechanical Specifications:

Item	Specification
RF-Material	RO3003-G2 (5mil) (5mil)(DK:3.01)(DF:0.003)
Size	27.208mm(L) × 14.083mm(W) × 0.05mm(T)