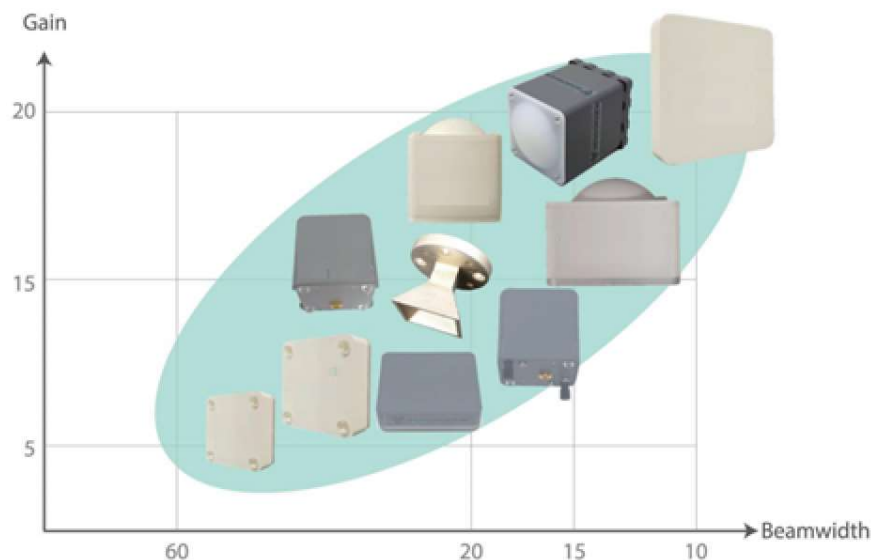


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# **mmWave Antenna (28GHz)**

# Strengths

- High gain performance
- Gain improvement through beam adjustable
- Super low loss material & flexibility
- Light-weight
- Available for indoor & test chamber
- Various frequency band available



24 ~ 29.5 GHz single band  
37.5 ~ 43.5 GHz single band  
24 ~ 29.5 / 37.5~43.5 GHz Dual band  
24~26.5 / 26.5~29.5 / 37.5~40.5GHz Triple band  
24~26.5 / 26.5~29.5 / 37.5~40.5 / 40.5~43.5 Quadruple band  
24 ~ 43.5 GHz broadband  
50 ~ 75 GHz band  
77 GHz band

## ISAN0001\_For indoor use

- High gain antenna in indoor solution
- Customization available

### Specification

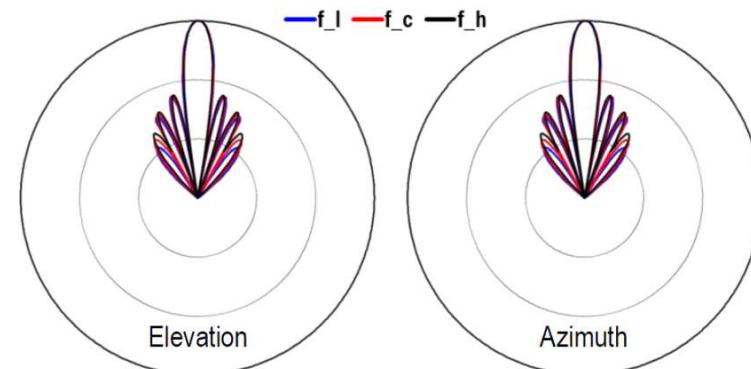
Electrical		
Frequency range [GHz]		27.5 ~ 28.5
Polarization		Linear
Band width [GHz]		1
Gain [dBi]		18
HPBW [°]	Elevation	$15 \pm 4$
	Azimuth	$15 \pm 4$
VSWR		$\leq 2:1$
Impedance [ $\Omega$ ]		50

Mechanical	
Dimension (HxWxD) [mm]	45 x 55 x 55
Weight [kg]	$\leq 0.2$
Connector type & No.	2.92mm(f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

### Model



### Pattern



## ISAN0002\_ For indoor use

- High gain antenna in indoor solution
- Customization available

### Specification

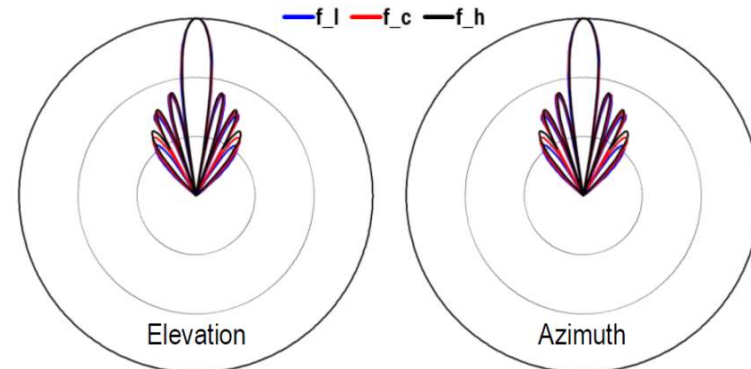
Electrical		
Frequency range [GHz]		27.5 ~ 28.5
Polarization		Linear
Band width [GHz]		1
Gain [dBi]		20
HPBW [°]	Elevation	$12 \pm 3$
	Azimuth	$12 \pm 3$
VSWR		$\leq 2:1$
Impedance [ $\Omega$ ]		50

Mechanical	
Dimension (HxWxD) [mm]	77 x 55 x 55
Weight [kg]	$\leq 0.2$
Connector type & No.	2.92mm(f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

### Model



### Pattern



## ISAN0005\_ For indoor use

- Various gain available for multiple application in indoor solution
- Operating mechanism via manual/mechanical

### Specification

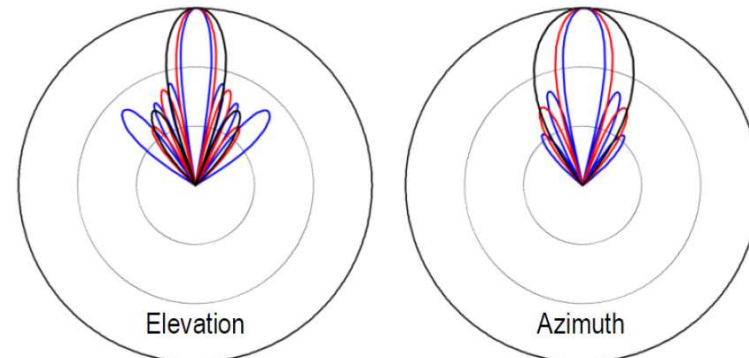
Electrical		
Frequency range [GHz]		27.5 ~ 28.5
Polarization		Linear
Band width [GHz]		1
Gain [dBi] ( <i>Adjustable</i> )		6 ~ 10
HPBW [°] ( <i>Adjustable</i> )	Elevation	13 ~ 25 ± 5
	Azimuth	18 ~ 40 ± 5
VSWR		≤ 2:1
Impedance [Ω]		50

Mechanical	
Dimension (HxWxD) [mm]	44 x 44 x 44
Weight [kg]	≤ 0.2
Connector type & No.	SMP x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

### Model



### Pattern



# ISAN0010\_For measurement

- Narrow beam antenna
- Antenna for test & measurement

## Specification

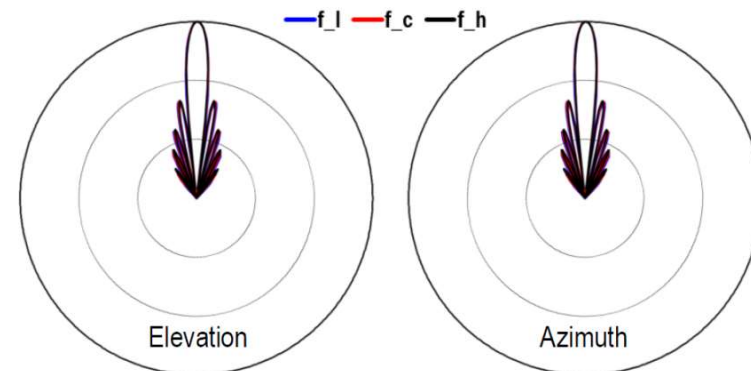
Electrical		
Frequency range [GHz]		26.5 ~ 29.5
Polarization		Linear
Band width [GHz]		3
Gain [dBi]		21
HPBW [°]	Elevation	$8 \pm 1$
	Azimuth	$8 \pm 1$
VSWR		$\leq 2:1$
Impedance [ $\Omega$ ]		50

Mechanical	
Dimension (HxWxD) [mm]	10 x 90 x 90
Weight [kg]	$\leq 0.3$
Connector type & No.	2.92mm(f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

## Model



## Pattern



## ISAN0016\_For measurement

- Circularly polarized horn antenna
- Verification antenna for AUT in test & measurement
- WR28 port or additional WR28-to-2.4mm converter

### Specification

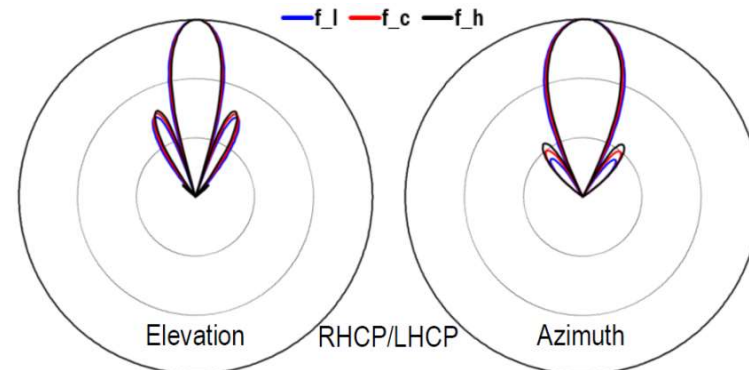
Electrical		
Frequency range [GHz]		24 ~ 43.5
Polarization		RHCP or LHCP
Band width [GHz]		19.5
Gain [dBic]		13
HPBW [°]	Elevation	$30 \pm 10$
	Azimuth	$36 \pm 10$
Axial ratio [dB]		$\leq 3.5$
VSWR		$\leq 1.7:1$
Impedance [ $\Omega$ ]		Waveguide

Mechanical	
Dimension (HxWxD) [mm]	24 x 15 x 18
Weight [kg]	$\leq 0.2$
Flange type	WR28
Material	Bronze or Aluminum
Temperature [°C]	-40 ~ 70

### Model



### Pattern



# ISAN0050\_Circularly polarized indoor

- Circularly polarized antenna & dual-band
- Verification antenna for AUT in test & measurement

## Specification

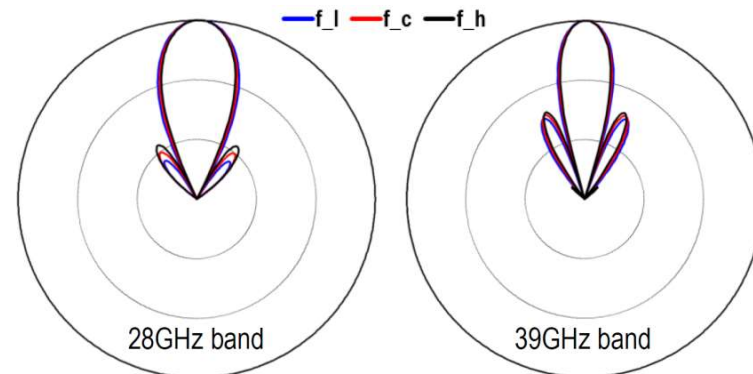
Electrical		
Frequency range [GHz]		26.5~29.5 / 37.5~40.5
Polarization		RHCP or LHCP
Band width [GHz]		3 / 3
Gain [dBic]		11 / 12
HPBW [°]	Elevation	29 / 20
	Azimuth	33 / 23
Axial ratio [dB]		$\leq 3$
VSWR		$\leq 2:1$
Impedance [ $\Omega$ ]		50

Mechanical	
Dimension (HxWxD) [mm]	22 x 42 x 42
Weight [kg]	$\leq 0.2$
Connector type & No.	2.92 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

## Model



## Pattern





# ISAN0051\_For measurement

- Circularly polarized antenna for triple band
- Verification antenna for AUT in test & measurement

## Specification

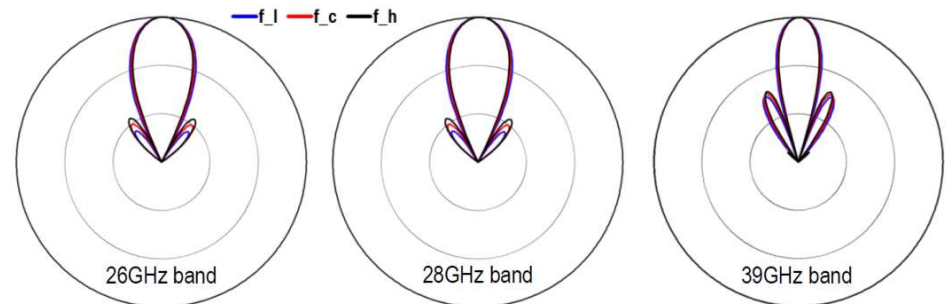
Electrical		
Frequency range [GHz]		24~26.5 / 26.5~29.5 / 37.5~40.5
Polarization		RHCP or LHCP
Band width [GHz]		2.3 / 3 / 3
Gain [dBic]		11
HPBW [°]	Elevation	25 / 20 / 17
	Azimuth	33 / 29 / 33
Axial ratio [dB]		≤ 3
VSWR		≤ 2:1
Impedance [Ω]		50

Mechanical	
Dimension (HxWxD) [mm]	26 x 42 x 42
Weight [kg]	≤ 0.2
Connector type & No.	2.92 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

## Model



## Pattern



# ISAN0052\_For measurement

- Circularly polarized antenna for quadruple band
- Verification antenna for AUT in test & measurement

## Specification

Electrical		
Frequency range [GHz]		24~26.5 / 26.5~29.5 / 37.5~40.5 / 40.5~43.5
Polarization		RHCP or LHCP
Band width [GHz]		2.3 / 3 / 3 / 3
Gain [dBic]		11
HPBW [°]	Elevation	25 / 20 / 17 / 15
	Azimuth	33 / 29 / 33 / 27
Axial ratio [dB]		≤ 3
VSWR		≤ 2:1
Impedance [Ω]		50

Mechanical	
Dimension (HxWxD) [mm]	22 x 42 x 42
Weight [kg]	≤ 0.2
Connector type & No.	2.4 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

## Model



## Pattern

