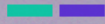
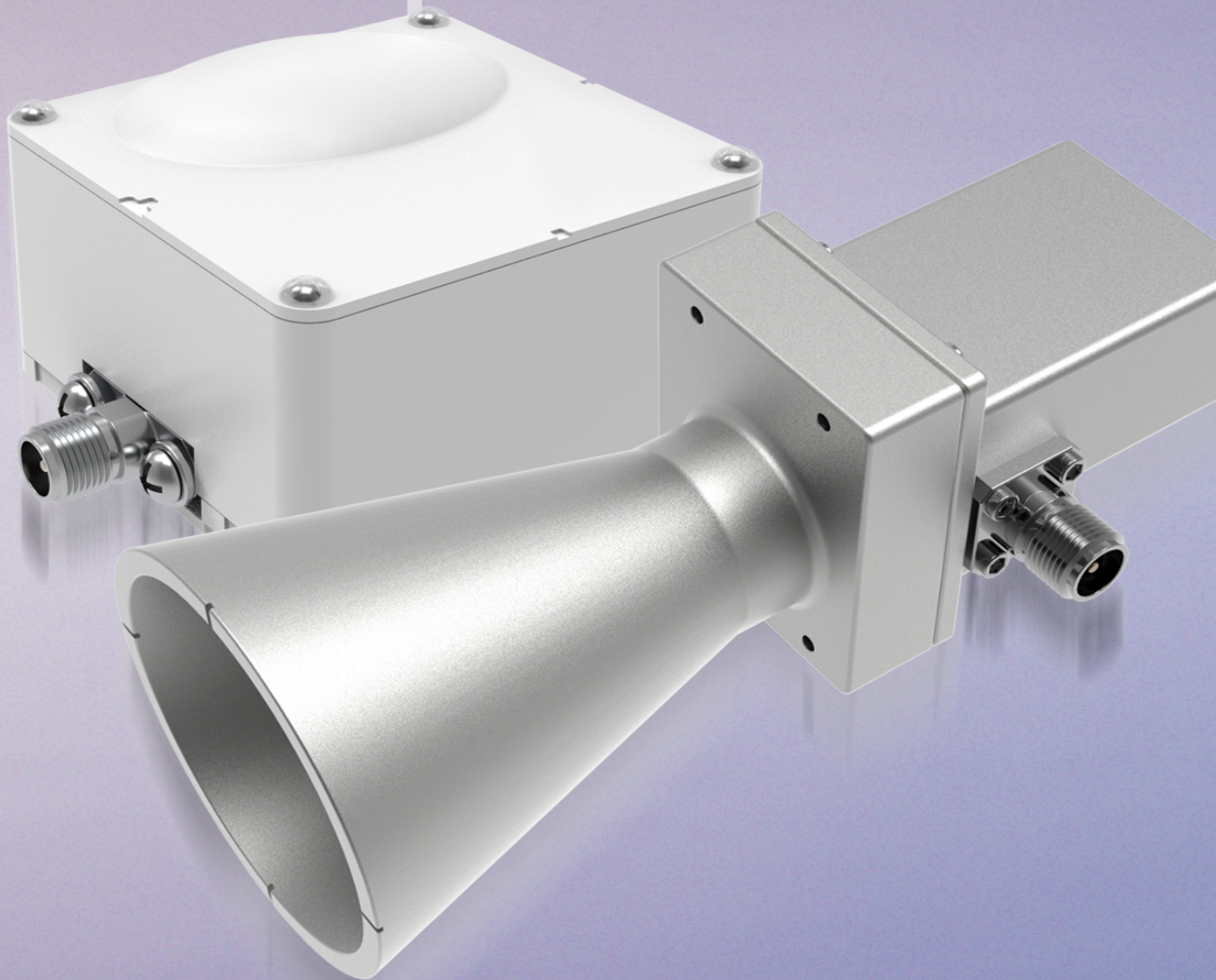


High-end mmWave antenna

SMFinder



Broadband and compact size



Phase and gain
adjustable

Light-
weight

High reliable
performance

24 to 48GHz /
55 to 67 GHz

- Circularly polarized antenna & broadband
- Verification antenna for AUT in test & measurement

Specification

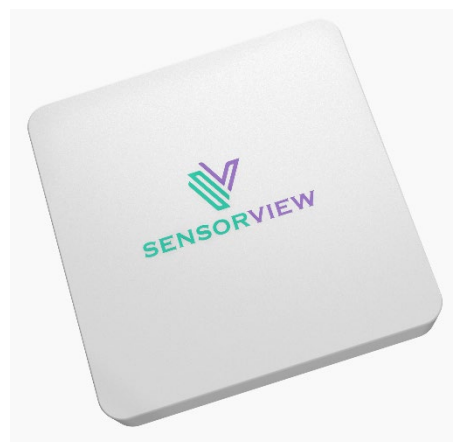
Electrical

Frequency range [GHz]	24.0 ~ 29.5	
Polarization	Circular	
Band width [GHz]	5.5	
Gain [dBi] (<i>Typ.</i>)	10.0	
HPBW [°] (<i>Typ.</i>)	Vertical	46
	Horizontal	46
Axial ratio [dB] (<i>Max.</i>)	3.0	
VSWR (<i>Max.</i>)	2.0:1	
Impedance [Ω]	50	

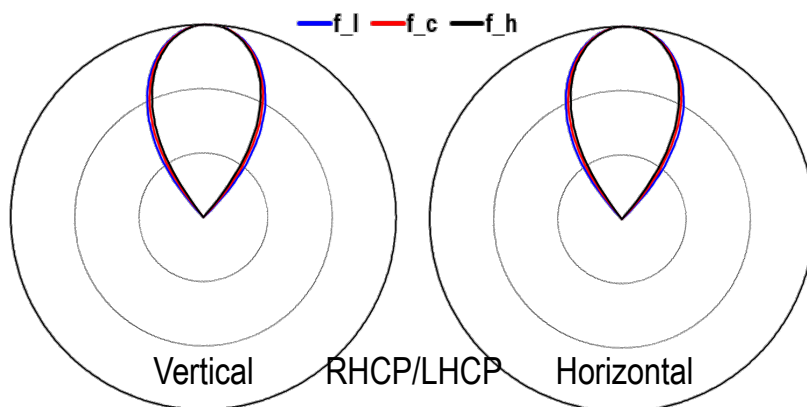
Mechanical

Dimension (WxDxH) [mm]	26 x 26 x 12	
Weight [g]	15	
Connector type & No.	2.92 mm (f) x 1	
Radome material & color	PC / White	
Temperature [°C]	-40 ~ 70	

Model



Pattern



0013A

- Circularly polarized antenna & broadband
- Verification antenna for AUT in test & measurement

Specification

Electrical

Frequency range [GHz]		24.2 ~ 29.5
Polarization		Circular
Band width [GHz]		5.3
Gain [dBi] (<i>Typ.</i>)		10.0
HPBW [°] (<i>Typ.</i>)	Vertical	42
	Horizontal	42
Axial ratio [dB] (<i>Max.</i>)		3.0
VSWR (<i>Max.</i>)		2.0:1
Impedance [Ω]		50

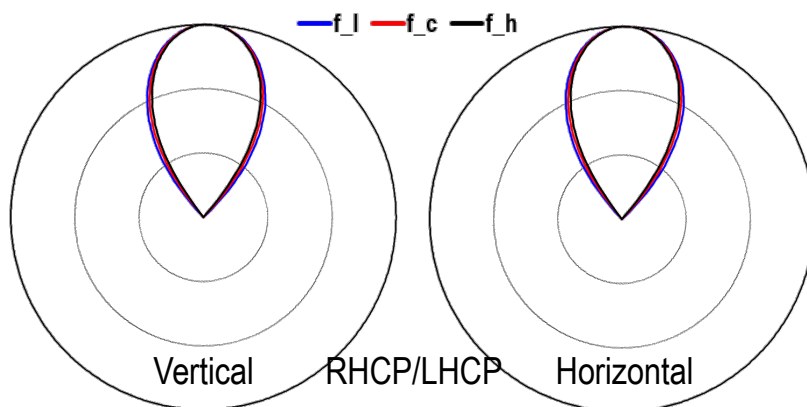
Mechanical

Dimension (WxDxH) [mm]	27 x 27 x 14
Weight [g]	15
Connector type & No.	2.92 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

Model



Pattern



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

Specification

Electrical		
Frequency range [GHz]		37.5 ~ 40.5
Polarization		Circular
Band width [GHz]		3.0
Gain [dBi] (<i>Typ.</i>)		9.0
HPBW [°] (<i>Typ.</i>)	Vertical	40
	Horizontal	40
Axial ratio [dB] (<i>Max.</i>)		3.0
VSWR (<i>Max.</i>)		2.0:1
Impedance [Ω]		50

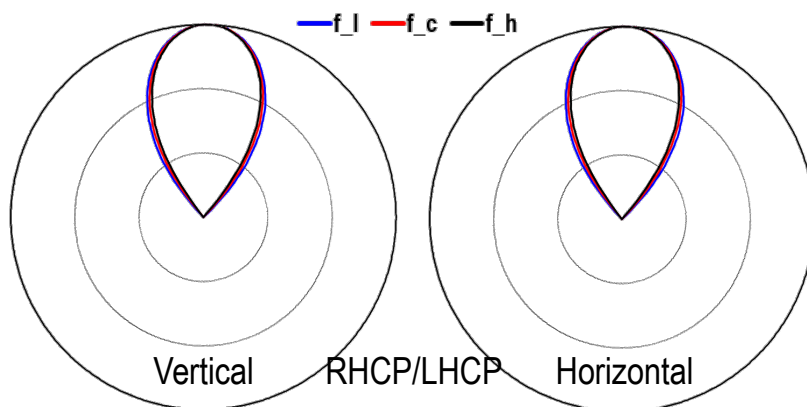
Mechanical

Dimension (WxDxH) [mm]		22 x 22 x 10
Weight [g]		10
Connector type & No.		2.92 mm (f) x 1
Radome material & color		PC / White
Temperature [°C]		-40 ~ 70

Model



Pattern



0015-01

- Linearly polarized horn antenna
- Verification antenna for AUT in test & measurement

Specification

Electrical

Frequency range [GHz]	24.0 ~ 29.5	
Polarization	Linear	
Band width [GHz]	3.0	
Gain [dBi] (Typ.)	10	
HPBW [°] (Typ.)	Vertical	50
	Horizontal	56
Cross-pol. [dB] (Typ.)	28.0	
Port Isolation [dB] (Typ.)	35.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

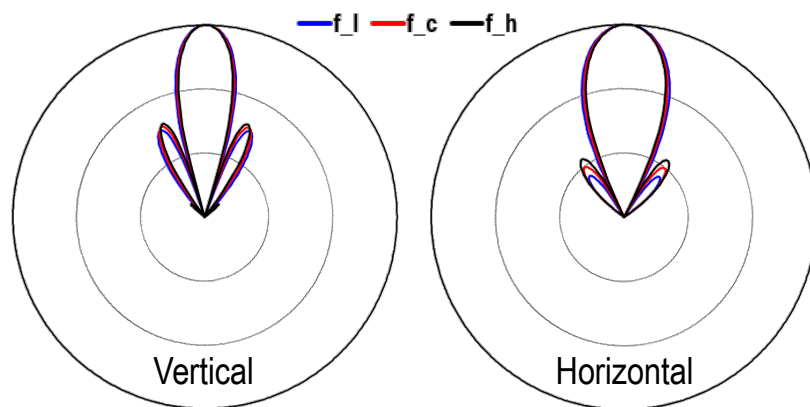
Mechanical

Dimension (ϕ xH) [mm]	30 x 45
Weight [g]	55
Connector type & No.	2.92 mm (f) x 2
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



0015A

- Linearly polarized horn antenna (Dual-pol.)
- Verification antenna for AUT in test & measurement

Specification

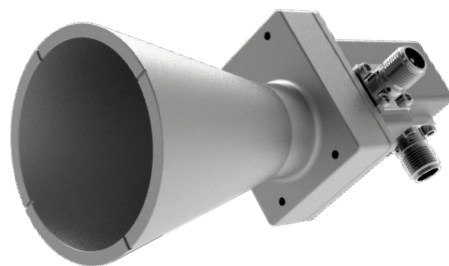
Electrical

Frequency range [GHz]	24.0 ~ 40.5	
Polarization	Linear	
Band width [GHz]	15.5	
Gain [dBi] (Min.)	15.0	
HPBW [°] (Typ.)	Vertical	19
	Horizontal	23
Cross-pol. [dB] (Typ.)	32.0	
Port Isolation [dB] (Typ.)	40.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

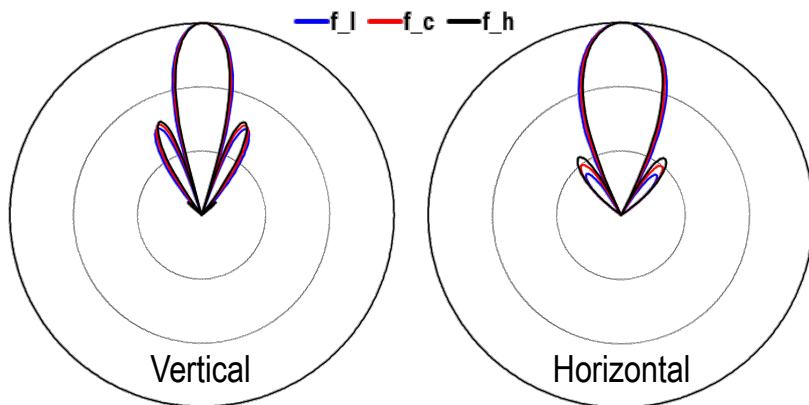
Mechanical

Dimension ($\phi \times H$) [mm]	35 x 80
Weight [g]	60
Connector type & No.	2.92 mm (f) x 2
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



0015B

- Linearly polarized horn antenna
- Verification antenna for AUT in test & measurement

Specification

Electrical		
Frequency range [GHz]		24.2 ~ 40.5
Polarization		Linear
Band width [GHz]		16.3
Gain [dBi] (Min.)		13.0
HPBW [°] (Typ.)	Vertical	33
	Horizontal	42
VSWR (Max.)		2.0:1
Impedance [Ω]		50

Model



Type 1

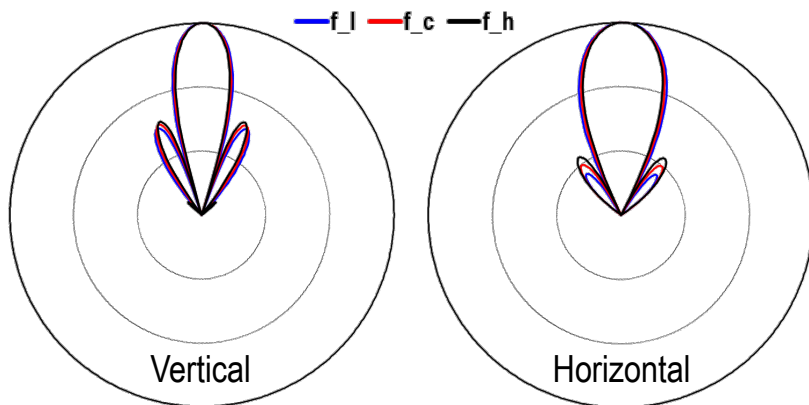


Type 2

Mechanical

Dimension (WxDxH) [mm]		A type: 17 x 17 x 25 B type: 17 x 17 x 29
Weight [g]		25
Connector type & No.		2.92 mm (f) x 1
Material		Aluminum
Temperature [°C]		-40 ~ 70

Pattern



0015C

- Linearly polarized horn antenna (Dual-pol.)
- Verification antenna for AUT in test & measurement

Specification

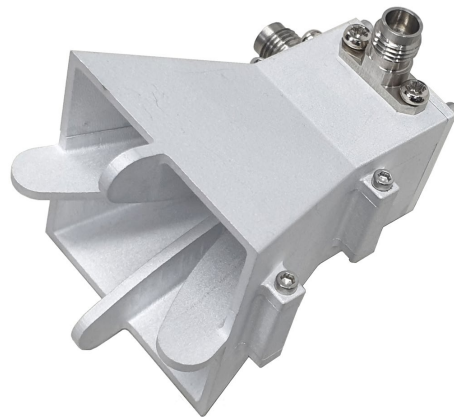
Electrical

Frequency range [GHz]	24.0 ~ 48.0	
Polarization	Linear	
Band width [GHz]	24.0	
Gain [dBi] (Typ.)	15.0	
HPBW [°] (Typ.)	Vertical	22
	Horizontal	25
Cross-pol. [dB] (Typ.)	25.0	
Port Isolation [dB] (Typ.)	30.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

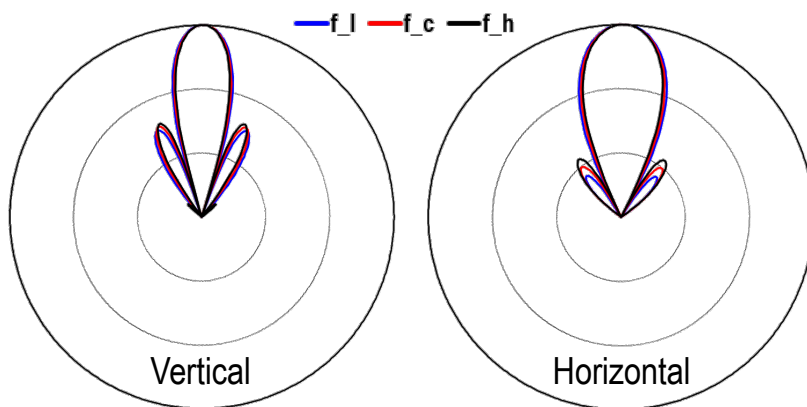
Mechanical

Dimension (WxDxH) [mm]	42 x 42 x 60
Weight [g]	100
Connector type & No.	2.4 mm (f) x 2
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



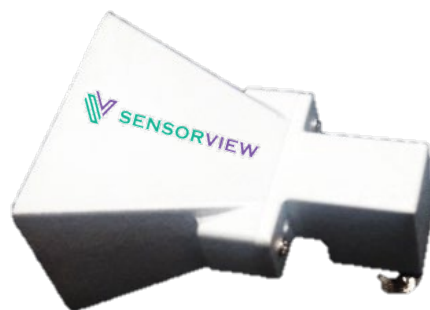
0015D

- Linearly polarized antenna
- Verification antenna for AUT in test & measurement

Specification

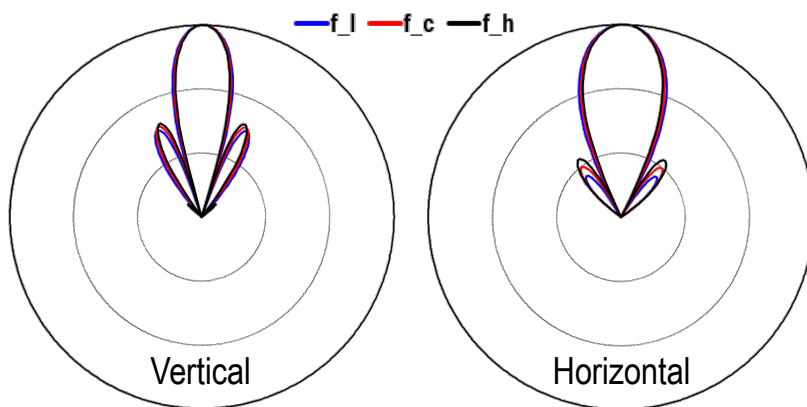
Electrical		
Frequency range [GHz]		24.0 ~ 48.0
Polarization		Linear
Band width [GHz]		24.0
Gain [dBi] (Min.)		15.0
HPBW [°] (Typ.)	Vertical	23
	Horizontal	22
VSWR (Max.)		2.0:1
Impedance [Ω]		50

Model



Mechanical	
Dimension (WxDxH) [mm]	34 x 24 x 45
Weight [g]	20
Connector type & No.	2.92 mm (f) x 1
Material	Aluminum
Temperature [°C]	-40 ~ 70

Pattern



0016

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

Specification

Electrical

Frequency range [GHz]		24.2 ~ 43.5
Polarization		Circular
Band width [GHz]		19.3
Gain [dBic] (Min.)		13.0
HPBW [°] (Typ.)	Vertical	36
	Horizontal	30
Axial ratio [dB] (Max.)		3.5
VSWR (Max.)		1.7:1
Impedance [Ω]		50

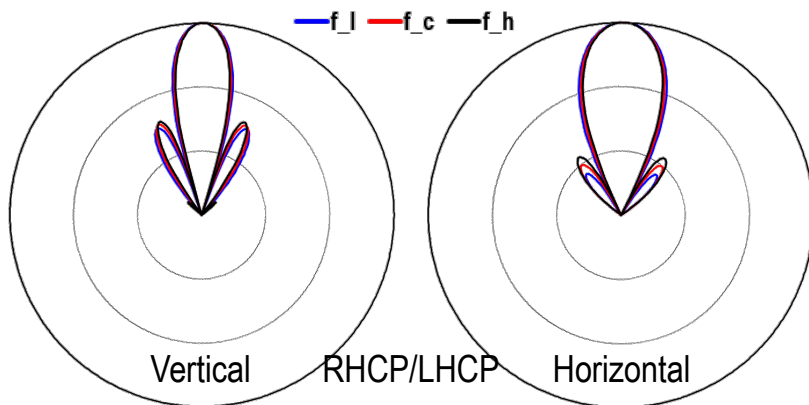
Mechanical

Dimension (WxDxH) [mm]	18 x 15 x 24
Weight [g]	10
Flange type	WR28
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



0016A

- Circularly polarized horn antenna
- Verification antenna for AUT in test & measurement

Specification

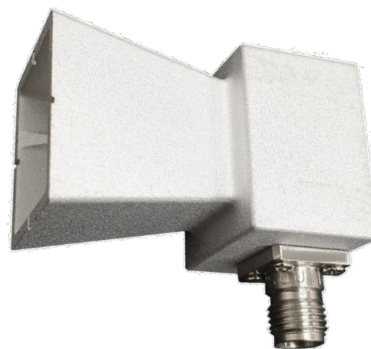
Electrical

Frequency range [GHz]	24.2 ~ 43.5	
Polarization	Circular	
Band width [GHz]	19.3	
Gain [dBic] (Typ.)	13.0	
HPBW [°] (Typ.)	Vertical	35
	Horizontal	31
Axial ratio [dB] (Max.)	3.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

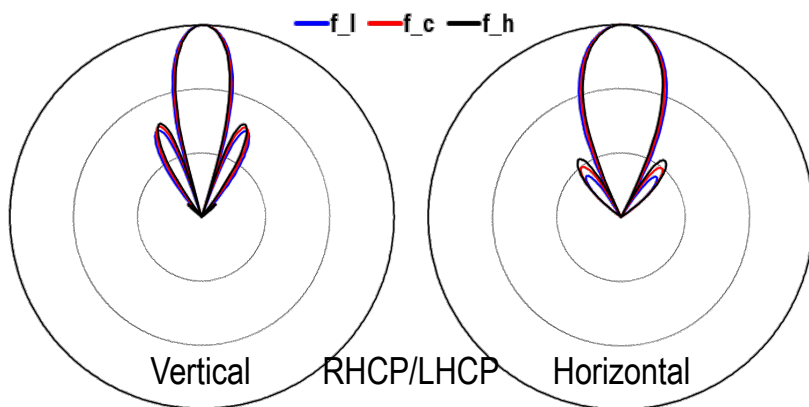
Mechanical

Dimension (WxDxH) [mm]	18 x 21 x 35
Weight [g]	30
Connector type & No.	2.4 mm (f) x 1
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



0016B

- Circularly polarized horn antenna
- Verification antenna for AUT in test & measurement

Specification

Electrical

Frequency range [GHz]	24.2 ~ 48.5	
Polarization	Circular	
Band width [GHz]	24.3	
Gain [dBic] (Typ.)	14.0	
HPBW [°] (Typ.)	Vertical	34
	Horizontal	31
Axial ratio [dB] (Max.)	3.0	
VSWR (Max.)	1.7:1	
Impedance [Ω]	50	

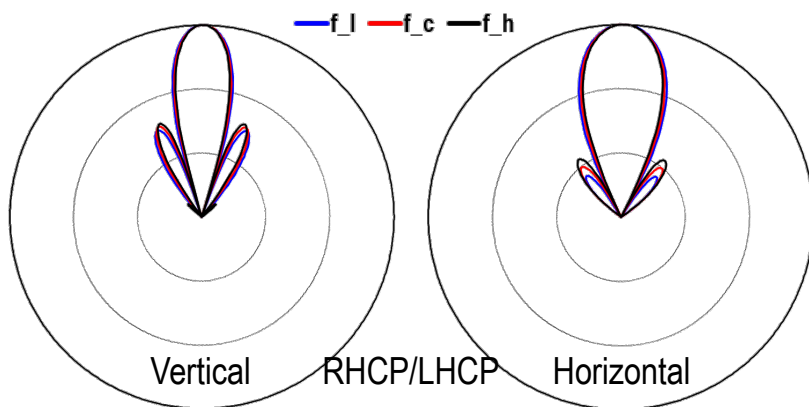
Mechanical

Dimension (WxDxH) [mm]	18 x 20 x 41
Weight [g]	35
Connector type & No.	2.4 mm (f) x 1
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



0016C

- Circularly polarized horn antenna
- Verification antenna for AUT in test & measurement

Specification

Electrical

Frequency range [GHz]	24.2 ~ 48.5	
Polarization	Circular	
Band width [GHz]	24.3	
Gain [dBic] (<i>Typ.</i>)	10.3	
HPBW [°] (<i>Typ.</i>)	Vertical	55
	Horizontal	48
Axial ratio [dB] (<i>Max.</i>)	3.0	
VSWR (<i>Max.</i>)	1.8:1	
Impedance [Ω]	50	

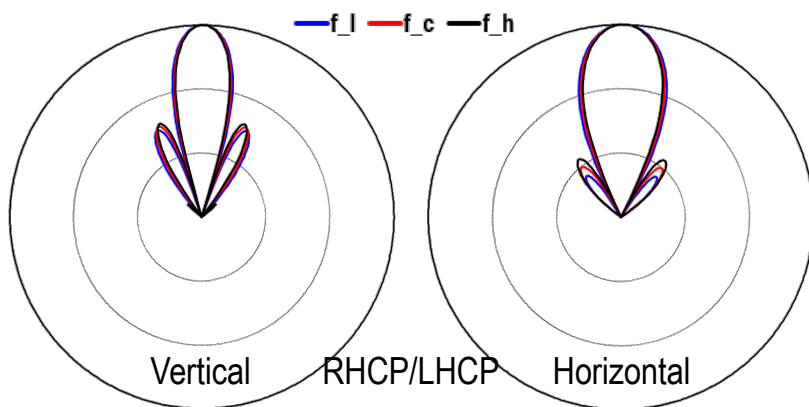
Mechanical

Dimension (WxDxH) [mm]	11 x 14 x 24
Weight [g]	25
Connector type & No.	2.4 mm (f) x 1
Material	Aluminum
Temperature [°C]	-40 ~ 70

Model



Pattern



0017

- Circularly polarized horn antenna
- Verification antenna for AUT in test & measurement
- WR15 port or additional WR15-to-1.85mm adapter available

Specification

Model

Electrical

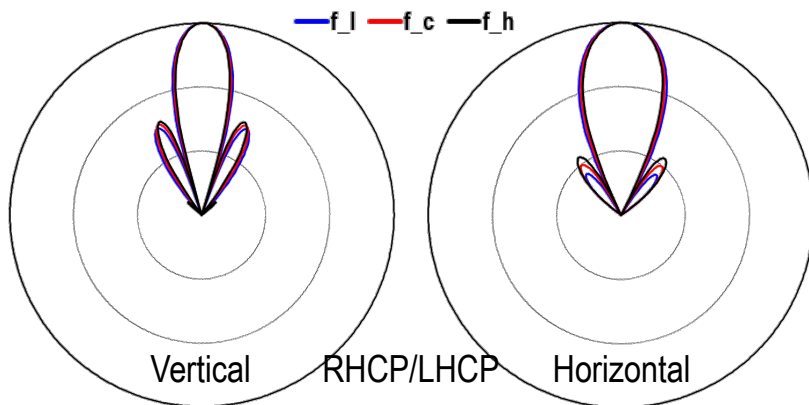
Frequency range [GHz]		57.0 ~ 67.0
Polarization		Circular
Band width [GHz]		10.0
Gain [dBic] (<i>Typ.</i>)		15.0
HPBW [°] (<i>Typ.</i>)	Vertical	25
	Horizontal	29
Axial ratio [dB] (<i>Max.</i>)		3.0
VSWR (<i>Max.</i>)		1.5:1
Impedance [Ω]		Waveguide



Mechanical

Dimension ($\phi \times H$) [mm]		15 x 21
Weight [g]		5
Flange type		WR15
Material		Aluminum
Temperature [°C]		-40 ~ 70

Pattern



0050

- 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	Circular	
Band width [GHz]	3.0 / 3.0	
Gain [dBic] (Typ.)	11.0 / 12.0	
HPBW [°] (Typ.)	Vertical	29 / 20
	Horizontal	33 / 23
Axial ratio [dB] (Max.)	3.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

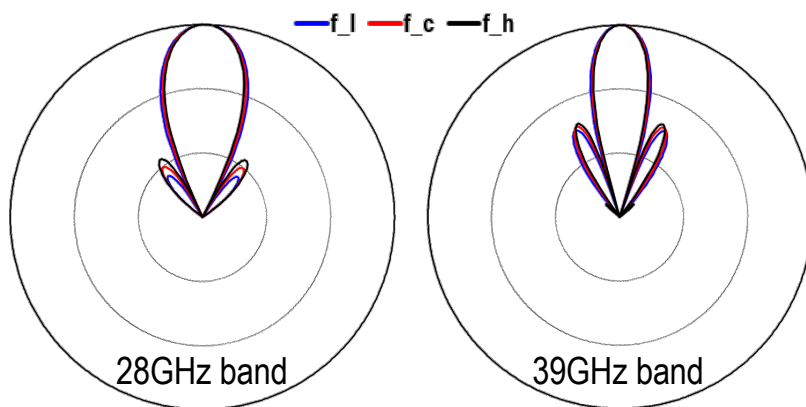
Mechanical

Dimension (WxDxH) [mm]	42 x 42 x 22
Weight [g]	25
Connector type & No.	2.92 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

Model



Pattern



0051

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

Specification

Electrical

Frequency range [GHz]	24.2~26.5 / 26.5~29.5 / 37.5~40.5	
Polarization	Circular	
Band width [GHz]	2.3 / 3.0 / 3.0	
Gain [dBic] (Typ.)	11.0 / 11.0 / 12.0	
HPBW [°] (Typ.)	Vertical	25 / 20 / 17
	Horizontal	33 / 29 / 33
Axial ratio [dB] (Max.)	3.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

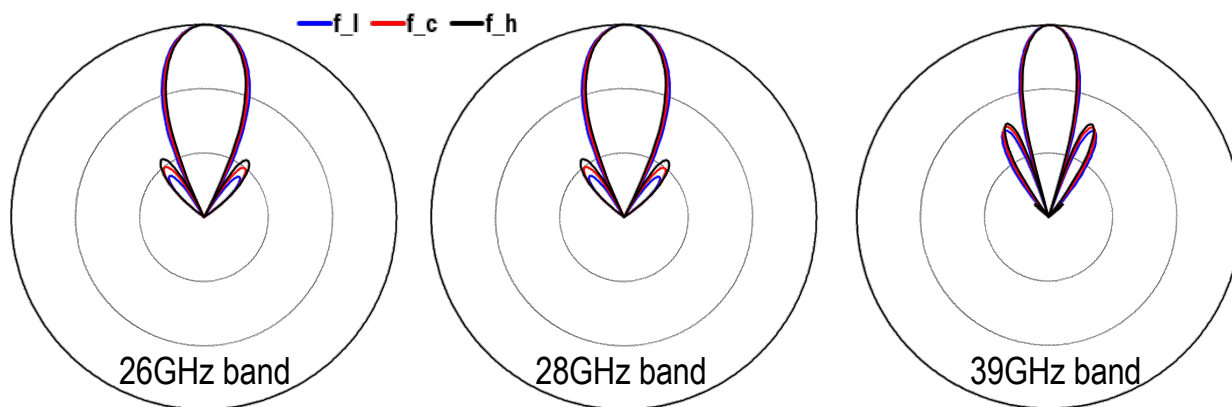
Mechanical

Dimension (WxDxH) [mm]	42 x 42 x 27
Weight [g]	30
Connector type & No.	2.92 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

Model



Pattern



0052

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

Specification

Electrical

Frequency range [GHz]	24.0~26.5 / 26.5~29.5 /37.5~40.5 /40.5~43.5	
Polarization	Circular	
Band width [GHz]	2.5 / 3.0 / 3.0 / 3.0	
Gain [dBic] (Typ.)	9.0 / 9.0 / 9.0 / 9.5	
HPBW [°] (Typ.)	Vertical	42 / 42 / 39 / 39
	Horizontal	50 / 50 / 50 / 25
Axial ratio [dB] (Max.)	3.0	
VSWR (Max.)	2.0:1	
Impedance [Ω]	50	

Model

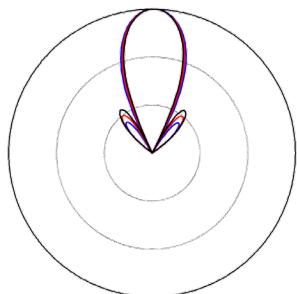


Mechanical

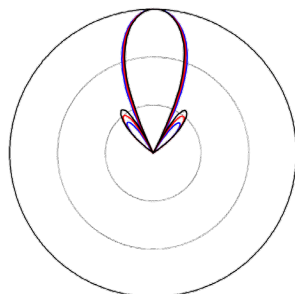
Dimension (WxDxH) [mm]	42 x 42 x 11
Weight [g]	20
Connector type & No.	2.4 mm (f) x 1
Radome material & color	PC / White
Temperature [°C]	-40 ~ 70

Pattern

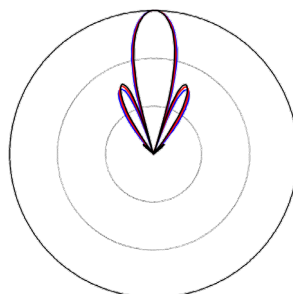
—f_l —f_c —f_h



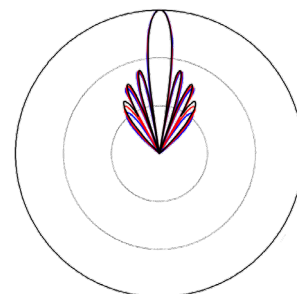
26GHz band



28GHz band



39GHz band



42GHz band