



Ka-Band Omnidirectional Antenna, 45 Degree, 3 dBi Gain

Description:

Model SAO-2434030345-KF-E1 is a full band, Ka band omnidirectional antenna that covers the frequency range of 24 and 40 GHz. This vertically polarized antenna offers 360 degrees azimuth coverage with a 3 dBi typical gain and ± 1 dB nominal gain flatness. The antenna features a half power beamwidth of 45 degrees in its vertical direction. The RF port of the antenna is equipped with K(F) coaxial connector. The version with a right-angle K(F) connector is offered under model number, **SAO-2434030345-KF-R1**.



Features:

- 360° Azimuth Coverage
- 45° Vertical 3 dB Beamwidth
- Vertically Polarized
- Full Band Operation

Applications:

- 5G Systems
- Communication Links
- EW Systems
- Indoor Local Area Networks

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	24 GHz		40 GHz
Gain		3 dBi	
Azimuth Gain Variation		± 1 dB	
Azimuth Beamwidth		360°	
3 dB Vertical Beamwidth		45°	
Return Loss, 24.0 to 26.5 GHz		6 dB	
Return Loss, 26.5 to 40.0 GHz		8 dB	
Power Handling		50 W (CW)	75 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

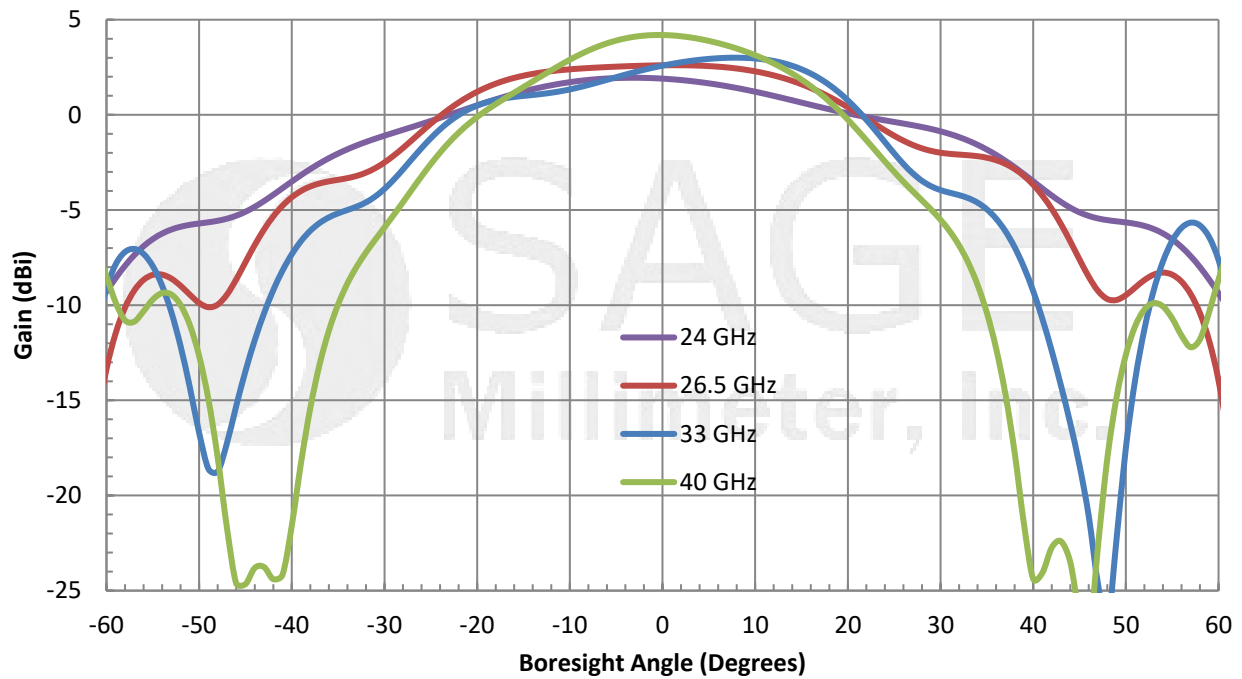
Item	Specification
Input	2.92 mm (K) Female Connector
Size	1.36" (H) x 1.79" (\varnothing)
Body Material	Aluminum
Radome Material	HDPE
Finish	Gold Plating
Weight	1.90 Oz
Outline	AO-AC03-045-E





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Simulated E-Plane Antenna Patterns



Simulated H-Plane Patterns

