SAO-2434030345-KF-E1

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

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	6 /1 1 1 1 1	+25 °C	in the second
Operating Temperature	-40 °C	erer.	+85 °C

Electrical Specifications:

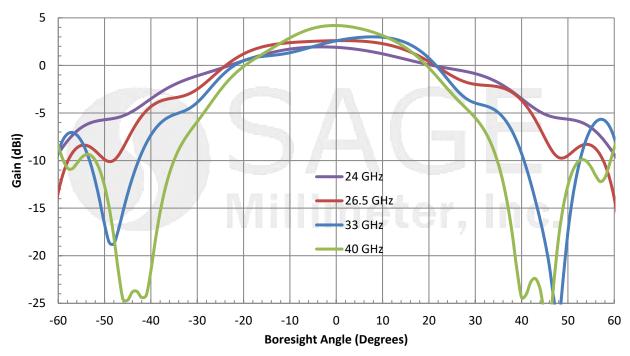
Mechanical Specifications:

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



www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com Rev. 1.1

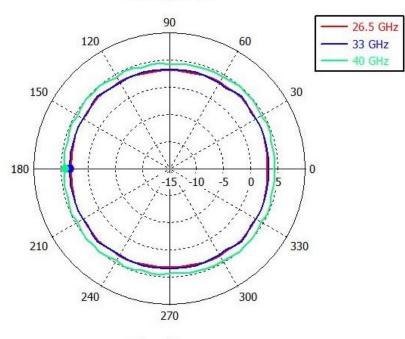
Ka-Band Omnidirectional Antenna, 45 Degree, 3 dBi Gain



Simulated E-Plane Antenna Patterns

Simulated H-Plane Patterns

Tables\1D Results

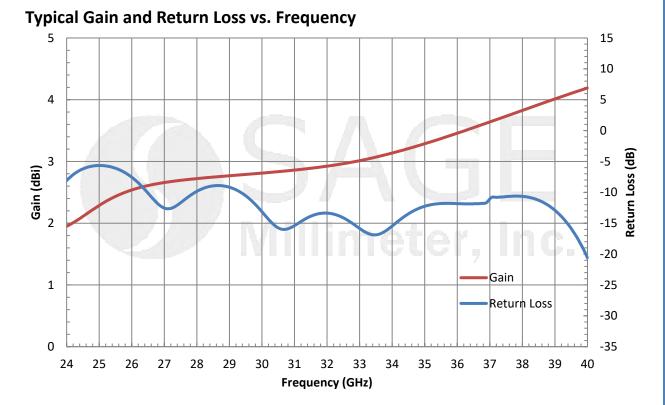


Theta / Degree

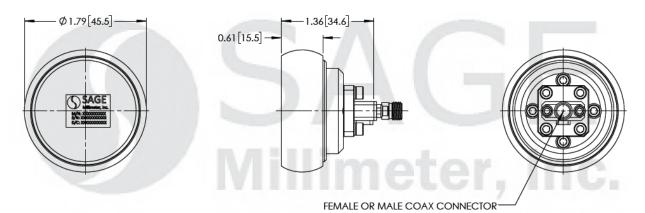


www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com Rev. 1.1

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



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is simulated. Actual data may vary, slightly.
- Eravant reserves the right to change the information presented without notice.

Caution:

• Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. Eravant torque wrench, model SCH-08008-S1, is highly recommended.



www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com Rev. 1.1