

## SAE-3034030060120-KF-S1

### Ka-Band Sector Antenna, 120°, H Plane, K (F) Connector

**SAE-3034030060120-KF-S1** is a Ka-band sector antenna that covers the frequency range from 30 to 40 GHz. This vertically polarized antenna offers 120 degrees azimuth coverage with 0 dBi gain and  $\pm 3$  dB gain flatness crosses the bandwidth. The antenna features a half power beamwidth of 60 degrees in the vertical direction. The RF interface port of the antenna is a coaxial K(F) connector. Another antenna port configuration, such as WR-28 waveguide interface is offered under model number, [SAE-3034030060120-28-S1](#).



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	30 GHz		40 GHz
Gain		0 dBi	
Gain Variation		$\pm 3$ dBi	
Azimuth		120°	
3 dB Beamwidth, Vertical		60°	
Return Loss		10 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

Item	Specification
Antenna Port	K (F) Coax Connector
Material	Aluminum
Finish	Gold Chem Film (Antenna), Gold Plated (Adapter)
Outline	AE-AC00-060-E

### ECCN

EAR99

### FEATURES

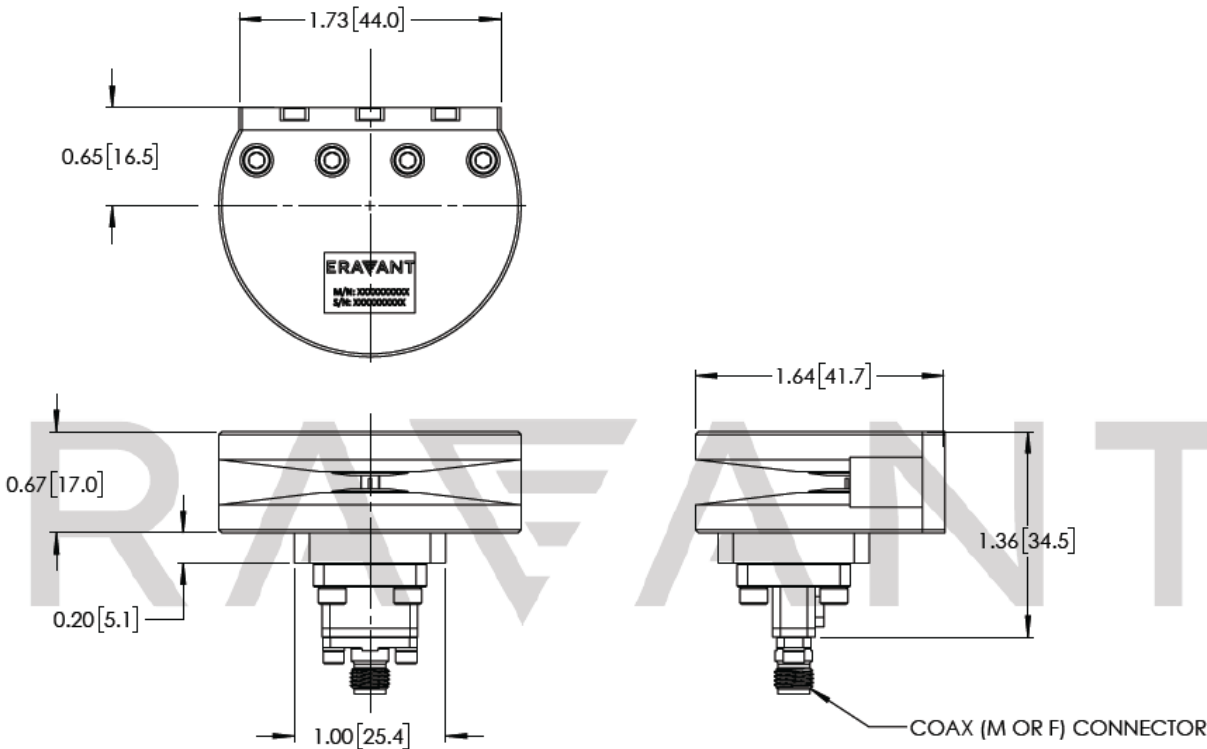
- Center Fed
- Low sidelobes
- Low cross polarization

### APPLICATIONS

- Radar systems
- Communication systems
- Plasma systems

### SUPPLEMENTAL DETAILS

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



**NOTE:**

- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- Any foreign objects in the antenna will cause performance degradation and possible device damage.

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