

AT Microwave SGA-03B – Standard Gain Horn Antennas

WR-3.4 · 220–330 GHz (J-band) · 15 / 20 / 25 dBi · linear pol. · UG-387/U-M · Product Datasheet



KEY SPECIFICATIONS

Parameter	Min	Typ	Max
Frequency (GHz)	220	–	330
Polarization	–	linear	–
Waveguide Port	–	WR-3.4	–
Flange	–	UG-387/U-M	–
Material / Finish	–	brass, gold-plated	–
Weight (g)	–	16	–
Operating Temp. (°C)	–	25	–

MODEL OVERVIEW

Model	Gain	Beamw. E	Beamw. H	SLL E	SLL H	Match
AT-SGA-15-03B	15 dBi	9°	10°	20 dB	20 dB	VSWR 1.2:1
AT-SGA-20-03B	20 dBi	10°*	13°*	12 dB	24 dB	RL > 27 dB
AT-SGA-25-03B	25 dBi	9°	10°	20 dB	20 dB	VSWR 1.2:1

* beamwidth at 275 GHz · all values typ. per manufacturer datasheet

DETAILED SPECIFICATIONS

Mechanical	Series & Range
• Antenna Port WR-3.4 Waveguide • Flange UG-387/U-M (anti-cocking) • Material Brass • Finish Gold Plated • Weight 16 g	• Frequency Band J-band, 220–330 GHz • Gain Variants 15 / 20 / 25 dBi • Polarization Linear • Custom Range up to 1100 GHz (WR-1.0) • Higher Bands on request

APPLICATIONS

mmWave Communication Reference horns for the 220–330 GHz J-band	FOD Detection Standard gain antennas for foreign-object-debris radar
System Setups Reference elements for measurement benches	Antenna Gain Test Gain-transfer reference for gain measurements