

Probe Antennas, SAP Series

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FEATURES:

- ◆ Frequency coverage: 8.2 to 170 GHz
- ◆ Rectangular waveguide interface
- ◆ Tapered end to minimize diffraction effects
- ◆ Low loss and high efficiency



APPLICATIONS:

- ◆ Antenna ranges
- ◆ Antenna gain measurements
- ◆ Rapid system setups
- ◆ Engineering setups

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DESCRIPTION:

SAP series probe antennas are offered as both standard and custom models with a rectangular waveguide interface. Probe antennas can only support linear polarization. These antennas are often used to measure the gain of other antennas by comparing the signal levels of the probe antenna and antenna under testing.

The standard models operate across the full waveguide band and offer 6.5 dB nominal gain and 115 and 60 degrees half power beamwidth at center frequency. The below standard offering covers the frequency range of 8.2 to 170 GHz.

CATALOG MODELS:

Band	Model Number	Frequency Range (GHz)	Gain (dB)	E-plane 3 dB BW (°)	H-plane 3 dB BW (°)	VSWR	Outline
X	SAP-90-S2	8.2 to 12.4	6.5	115.0	60.0	2:1	AP-X
Ku	SAP-62-S2	12.4 to 18.0	6.5	115.0	60.0	2:1	AP-6
K	SAP-42-S2	18.0 to 26.5	6.5	115.0	60.0	2:1	AP-K
Ka	SAP-28-S2	26.5 to 40.0	6.5	115.0	60.0	2:1	AP-A
Q	SAP-22-S2	33.0 to 50.0	6.5	115.0	60.0	2:1	AP-Q
U	SAP-19-S2	40.0 to 60.0	6.5	115.0	60.0	2:1	AP-U
V	SAP-15-S2	50.0 to 75.0	6.5	115.0	60.0	2:1	AP-V
E	SAP-12-S2	60.0 to 90.0	6.5	115.0	60.0	2:1	AP-E
W	SAP-10-S2	75.0 to 110.0	6.5	115.0	60.0	2:1	AP-W
F	SAP-08-S2	90.0 to 140.0	6.5	115.0	60.0	2:1	AP-F
D	SAP-06-S2	110.0 to 170.0	6.5	115.0	60.0	2:1	AP-D

TYPICAL E AND H PLANE PATTERNS:

