

AA18G26

- 2 Watt CW
- 18–26.5 GHz
- 20 V/m & 50 V/m min field strength options @ 1 meter test distance
- CE, RoHS and WEEE compliant

Features

The Model AA18G26 is a solid-state, air-cooled, broadband field generating system designed for applications where low-level, high-frequency fields are required. Included is a tripod-mountable amplifier/antenna field generating unit.

The Model AA18G26, when used with an external signal generator, will provide a minimum of 20 V/m or 50 V/m field strength at a distance of 1 meter. The AA1000 is recommended for providing DC power, RF signal routing and fault detection to the AA18G26. The AA18G26 is protected from over-temperature through forced-air cooling.

The export classification for this equipment is EAR99.



Specifications

RATED FIELD STRENGTH: Minimum 20 V/m or 50 V/m at 1 meter antenna distance

MAXIMUM AMPLIFIER INPUT: +10 dBm max

FREQUENCY RESPONSE: 18–26.5 GHz instantaneous

3dB BEAMWIDTH:

AA18G26-20: E Plane: 17.5 degrees
H Plane: 7.8 degrees

AA18G26-50: E Plane: 8.1 degrees
H Plane: 9.5 degrees

3dB SPOT SIZE @ 1m:

AA18G26-20: 0.63m x 0.64m

AA18G26-50: 0.28m x 0.33m

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or Pulse modulation appearing on input signal.

SPURIOUS: Minus 65 dBc typical

PRIMARY POWER (Supplied by AA1000): 8 VDC @ 6 Amps max, +24VDC @ 1 Amp max

CONNECTORS:

RF Input: 2.92 mm (K-type) female

DC Input: Twinax

COOLING: Forced air (self contained fans)

WEIGHT:

AA18G26-20: 2.5kg (5.5lb)

AA18G26-50: 2.7kg (6lb)

SIZE (W x H x D):

AA18G26-20: 12.1cm x 18.4cm x 17.8cm
(4.75in x 7.25in x 7in)

AA18G26-50: 12.1cm x 18.4cm x 35.6cm
(4.75in x 7.25in x 14in)

ENVIRONMENTAL:

Operating Temperature: 5°C/+40°C

Operating Altitude: up to 2000M

Shock and vibration: Normal Truck Transport

REGULATORY COMPLIANCE:

EMC EN 61326-1

Safety UL 61010-1

CAN/CSA C22.2 #61010-1

CENELEC EN 61010-1

RoHS DIRECTIVE 2011/65/EU

WEEE DIRECTIVE 2012/19/EU

EXPORT CLASSIFICATION: EAR99

AR RF/Microwave Instrumentation

160 School House Rd
Souderton, PA 18964
215-723-8181

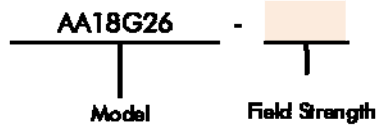
For an applications engineer call: 800.933.8181

www.arworld.us

ISO 9001 Certified

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FIELD STRENGTH	
20 V/m (Lo-Field)	20
50 V/m (Hi-Field)	50

Contact your AR RF/Microwave Instrumentation Sales Associate for specific model configuration pricing.