The AHA-118 is a 50 Ohm dual linearly polarized broadband horn antenna which is ideal for many applications. It can be used for both receiving and transmitting. Precision ‘SMA’ connectors are used to provide low VSWR and high power handling capability. The back structure mounting section allows easy adjustment for vertical, horizontal and 45 deg polarizations.

**Characteristics**

- **Frequency Range:** 1 GHz to 18 GHz
- **Typical gain:** 7 to 16 dBi
- **VSWR:** < 2.3 (1.5:1 in Average)
- **Polarization:** Dual Linear
- **Maximum Power Handling:** CW 110W, Pulse 180W
- **Feed-point Impedance:** 50 Ohms
- **Cross polarization:** -35 dB in Average
- **Cross port isolation:** -35 dB in Average
- **Connector:** 2 X SMA female
- **Size (L x H x W in cm):** approx. 23x 24 x 24
- **Weight:** approx. 0.8 kg
- **Construction:** Aluminium
- **Optional Radome cover**
**Parameters**

**VSWR**

- Port A
- Port B

**Gain**

- Port A
- Port B

**Cross Port Isolation**

- Port A
- Port B

**Cross Polarization**

- Port A
- Port B

**Frequency (GHz)**

- 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

**VSWR**

- 1.0 to 3.0

**Gain (dB)**

- 0 to 18

**Cross Port Isolation (dB)**

- -50 to -10

**Cross Polarization (dB)**

- -50 to -10
PORT A - Radiation Patterns

1 GHz

2 GHz

3 GHz

4 GHz

5 GHz

6 GHz

8 GHz

10 GHz

12 GHz

14 GHz

16 GHz

18 GHz
PORT B - Radiation Patterns

1 GHz

2 GHz

3 GHz

4 GHz

5 GHz

6 GHz

8 GHz

10 GHz

12 GHz

14 GHz

16 GHz

18 GHz