



## UPA 6108 / UPA 6109 LOG PERIODIC ANTENNAS 200 MHz to 1 GHz



UPA 6109

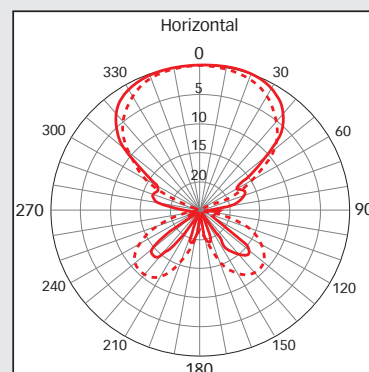
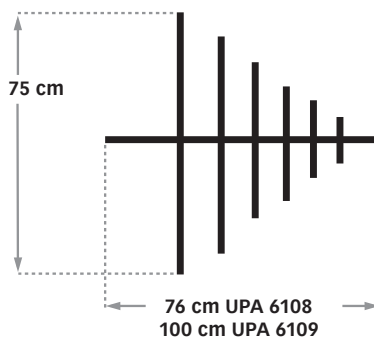
- 200 MHz to 1 GHz or 300 MHz to 1 GHz
- 300 W power handling
- Robust and lightweight
- Broadband immunity and emission antenna

The UPA 6108 and UPA 6109, suitable for CISPR/IEC/EN, FCC, MIL-STD testing, are small yet rugged antennas covering the frequency range 200 MHz - 1 GHz (UPA 6109), and 300 MHz - 1 GHz (UPA 6108). Manufactured from aluminium and acetyl-copolymer, these linearly polarized antennas are both robust and lightweight making them suitable for internal applications where space may be limited and external applications in most environments. An N female RF connector at the end of a 400 mm stainless steel tube allows the antenna to be rotated through 90° with no physical displacement thus minimizing the effect of the RF feed cable on the antenna calibration factor. The UPA 6108 and UPA 6109 are ideal for both emission and immunity/ susceptibility testing with their high input power handling capability of up to 300 Watts CW.

### Technical specifications

Frequency range UPA 6108:	300 MHz to 1 GHz
Frequency range UPA 6109:	200 MHz to 1 GHz
Typical gain:	4 dB
Impedance (nominal):	50 $\Omega$
Maximum continuous power:	300 W
Connector:	N type female
VSWR:	< 2:1
Size UPA 6108 (L x W in mm):	approx. 760 X 750 (see drawing)
Size UPA 6109 (L x W in mm):	approx. 100 X 750 (see drawing)
Weight:	approx. 1.5 kg
Recommended tripod:	BTP 6020A

### Typical E field polar patterns for UPA 6108 at — 300 and - - 1000 MHz

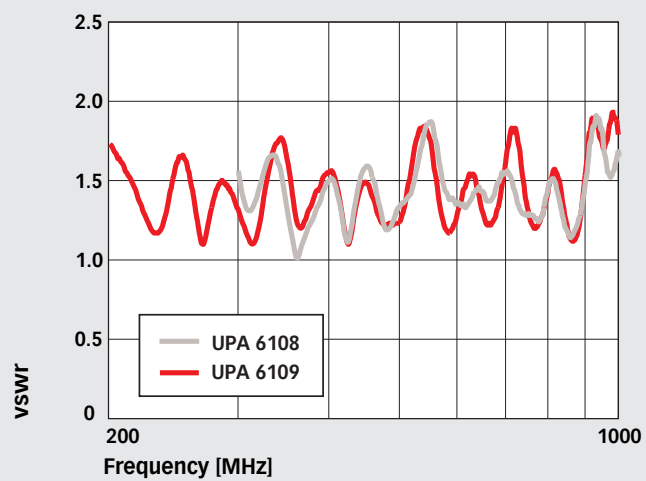


**TESEO**

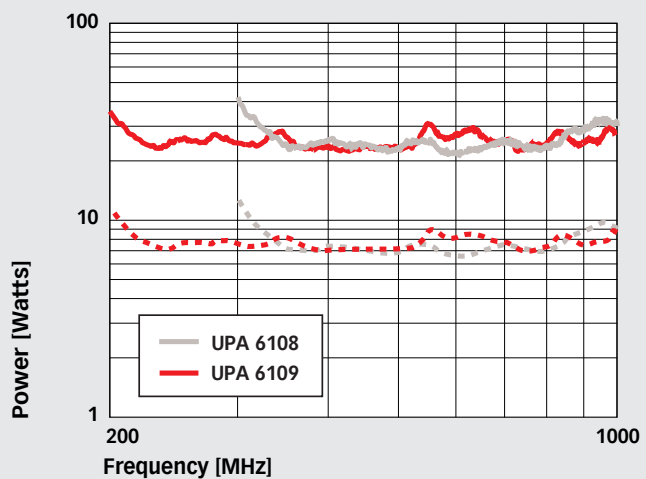
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Typical VSWR



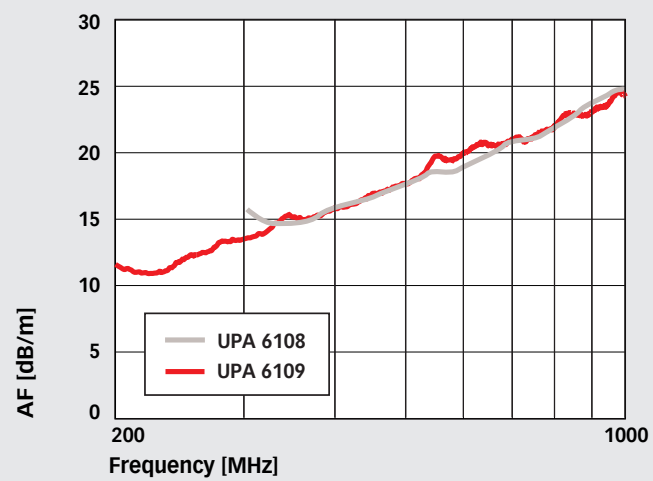
Typical drive power for 10 V/m at 3 m, --- CW power, — power with 80% modulation



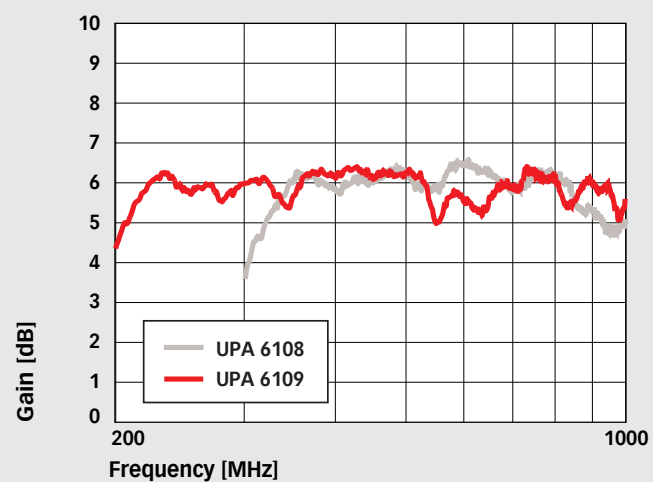


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Typical antenna factor

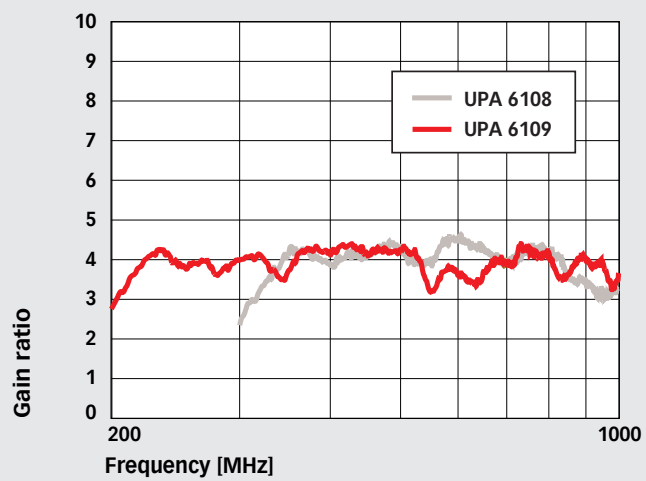


Typical gain

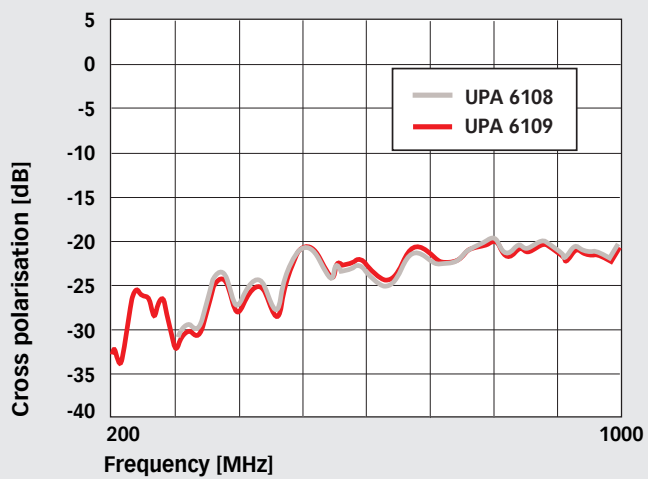


## UPA 6108 / UPA 6109 LOG PERIODIC ANTENNAS 200 MHz to 1 GHz

Typical gain ratio



Typical cross polarisation





## **UPA 6108 / UPA 6109** **LOG PERIODIC ANTENNAS 200 MHz to 1 GHz**

### **Delivery information**

Part number	Description
346-600	UPA 6108 UHF Log periodic antenna 300 MHz - 1 GHz
346-650	UPA 6109 UHF Log periodic antenna 200 MHz - 1 GHz
97-244570	Ant Cert-TC Traceable calibration (ISO17025), order only with the antenna, free space calibration (horizontal), other calibrations on request
248504	BTP 6020A-0880 EMC Tripod with tube 880 mm and mounting head for antennas with 22 mm tube
248505	BTP 6020A-0680 EMC Tripod with tube 680 mm and mounting head for antennas with 22 mm tube
248523	BTP 6020A-1370 EMC Tripod with tube 1370 mm and mounting head for antennas with 22 mm tube

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