Log Periodic Antennas 200MHz - 1GHz

UPA 6108 / 6109

- **200MHz - 1GHz or 300MHz - 1GHz**
- **300W power handling**
- **Robust and lightweight**

UPA 6108 mounted on optional tripod CTP 6097A

The UPA 6108 and UPA 6109, suitable for CISPR/EN, FCC, MIL-STD testing, are small yet rugged antennas covering the frequency range 200MHz - 1GHz (UPA 6109), and 300MHz - 1GHz (UPA 6108).

Manufactured from aluminium and acetyl-copolymer, these linearly polarised 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 400mm stainless steel tube allows the antenna to be rotated through 90° with no physical displacement thus minimising the effect of the RF feed cable on the antenna calibration factor.

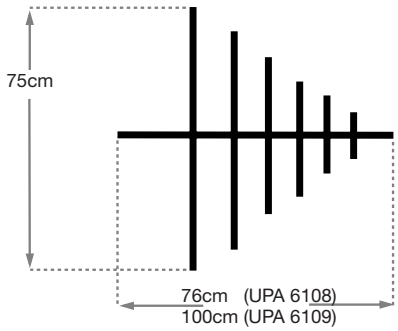
The UPA 6108 and UPA 6109 are ideal for both emission and immunity/ susceptibility testing with their high input power handling capability of up to 300 Watts CW.

Options

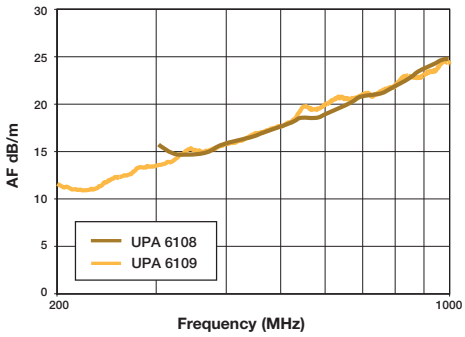
UKAS Calibration

Schaffner EMC Systems is UKAS accredited for antenna calibration and can offer a UKAS calibration as an additional costed option.

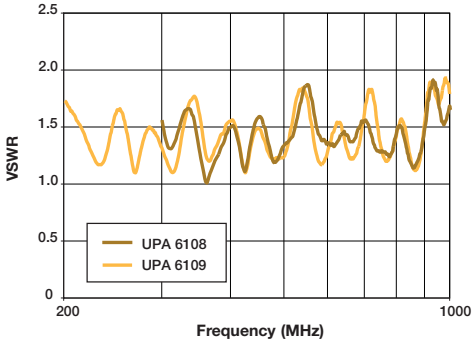
UKAS calibration provides reduced measurement uncertainties and additional data includes the voltage reflection coefficient for calculation of measurement uncertainties. Data is provided on disk as well as in graphic and tabulated format as hard copy.



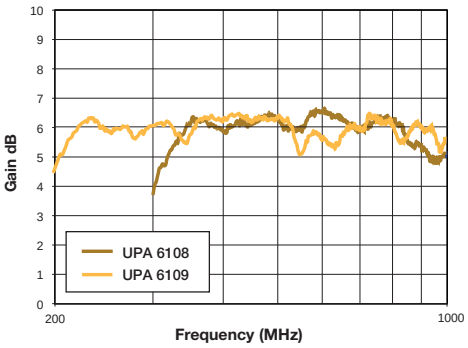
Typical Antenna Factor



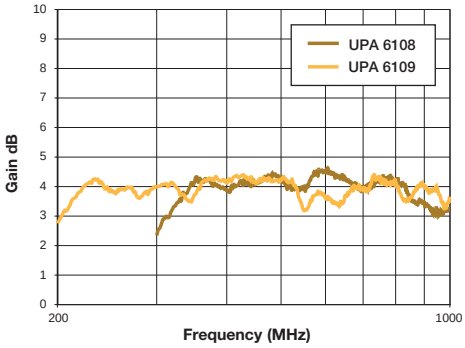
Typical VSWR



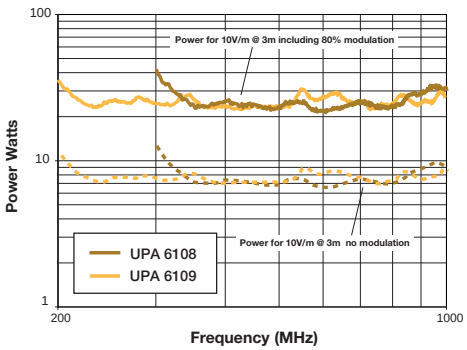
Typical Gain [dB]



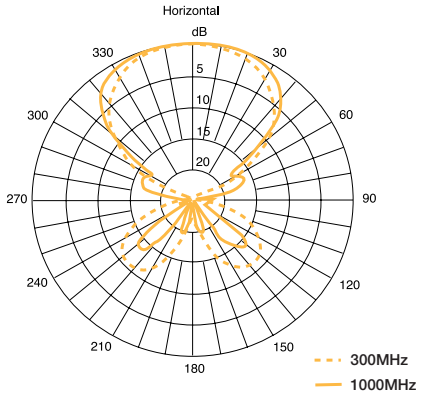
Typical Gain Ratio



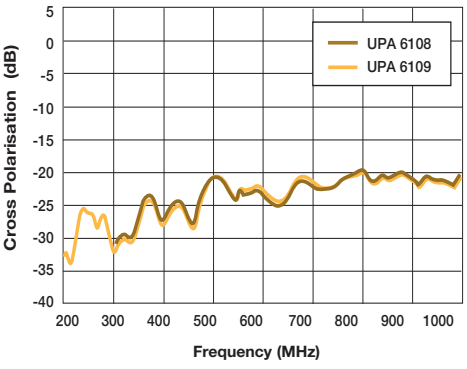
10V/m Power Requirement



Polar Pattern UPA 6108



Cross Polarisation



Technical Specifications	UPA 6108	UPA 6109		UPA 6108	UPA 6109
Frequency range	300MHz -1GHz	200MHz -1GHz	VSWR	<2:1	<2:1
Impedance	50Ω Nominal	50Ω Nominal	Size L x W cm	76 x 75	100 x 75
Gain (over half wave tuned dipole)	4dB Typical	4dB Typical	Weight	1.5kg	2kg
Connector	N Female	N Female	Transmit power (CW) (Max)	300 Watts	300 Watts