Model AT4333, M1
Antenna
2.2-3.3GHz

The Model AT4333 is a high gain, high power microwave horn antenna that has been developed to address the high pulsed field level requirements at the highest microwave frequency band of the latest automotive standards. Currently, both General Motors and the Ford Motor Company require 600V/m pulse testing. GMW3097 calls out a 1.2 – 1.4GHz frequency band and the Ford standard ES-XW7T-1A278-AC mandates 600V/m testing for two frequency bands (1.2 – 1.4GHz and 2.7 – 3.1GHz.). With a typical gain of 18.5 dBi at 2.2GHz increasing to well over 21.5dBi at 3.3 GHz., the AT4333 will provide the required 600V/m pulsed field level.

For applications requiring automotive EMC testing that includes both the 2.7 – 3.1 GHz frequency range and the lower range of 1.2 – 1.4 GHz, the AT4318 is recommended for use at the lower frequency band. In this case, either the AR Worldwide Model 750TP1G3/200T pulse/CW TWTA or the 1000TP1G3 dual band pulse only TWTA is recommended.

SPECIFICATIONS

FREQUENCY RANGE ..... 2.2–3.3GHz.

POWER INPUT (maximum CW) ..... 500 watts

POWER INPUT (maximum Pulse) ..... 1500 watts

POWER GAIN (over isotropic) ..... See curve.

VSWR
- Maximum 1.4:1
- Average 1.3:1

BEAM WIDTH (average)
- E Plane ..... See curve
- H Plane ..... See curve

CONNECTOR ..... See Model Configuration

MOUNTING PROVISIONS ..... Mounting pads on two adjacent sides with ¼-20 tapped holes provided.

WEIGHT ..... 6 kg (13 lbs)

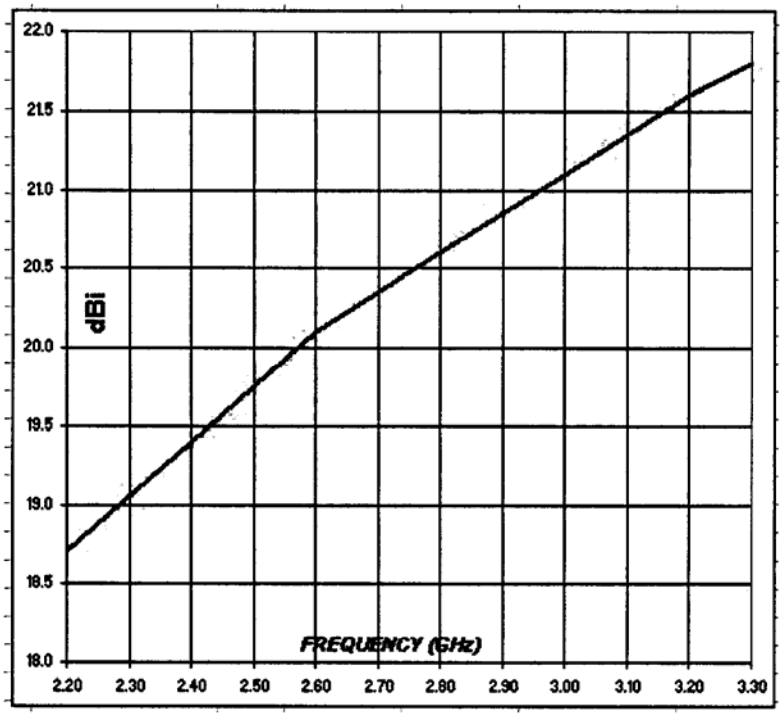
SIZE (WxDxH) ..... 46 x 33 x 94 cm (18 x 13 x 37 in)

MODEL CONFIGURATION

Model	Connector
AT4333	N female
AT4333M1	SC female

MODEL AT4333

Typical Gain @ Far Field



Typical Beamwidth