



**Model AT4318 Antenna
1.2-1.8GHz**

The Model AT4318 is a very high gain, high power microwave horn antenna that has been developed to address the high pulsed field level requirements at the lowest microwave frequency band of the latest automotive standards. Currently, both General Motors and the Ford Motor Company require 600 V/m pulse testing. GMW3097 calls out a 1.2–1.4 GHz frequency band and the Ford standard ES-XW7T-1A278-AC mandates 600V/m testing for two frequency bands (1.2–1.4 GHz and 2.7–3.1 GHz). With a typical gain of 17 dBi at 1.2 GHz increasing to well over 18 dBi at 1.8 GHz, the AT4318 will provide the required 600V/m pulsed field level.

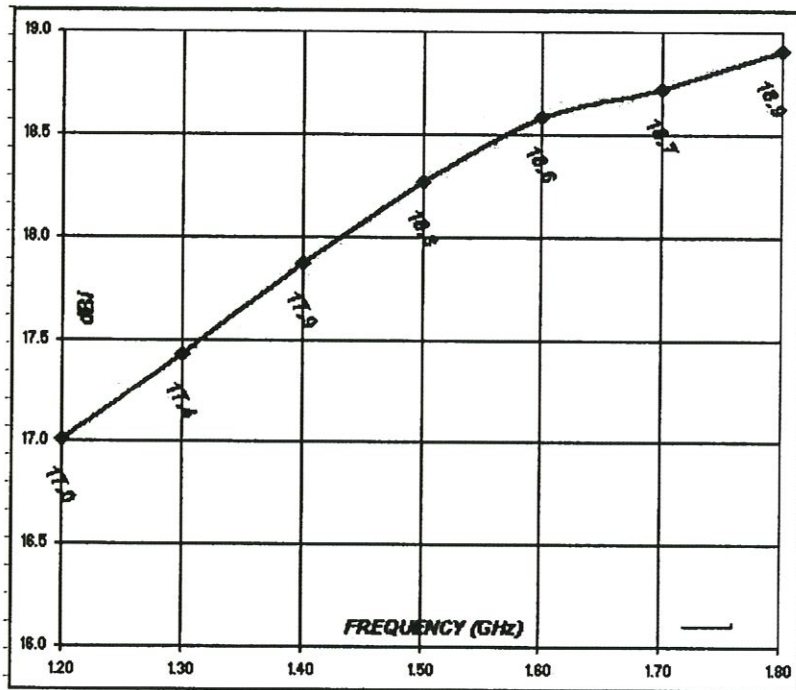
For applications requiring automotive EMC testing that includes both the 1.2–1.4 GHz frequency range and the upper range of 2.7–3.1 GHz, the AT4333 is recommended for use at the upper frequency band. In this case, either the AR Worldwide Model 750TP1G3/200T pulse/CW TWTA or the 1000TP1G3 dual band pulse only TWTA is recommended.

SPECIFICATIONS

FREQUENCY RANGE.....	1.2–1.8GHz.
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.....	7-16 DIN female
MOUNTING PROVISIONS	Mounting pads on two adjacent sides with ¼-20 tapped holes provided.
WEIGHT	11 kg (24 lbs)
SIZE (WxDxH)	61 x 61 x 74 cm 24 x 24 x 29 in

MODEL AT4318

Typical Gain @ Far Field



Typical Beamwidth

