

7.5 - 18 GHz Wideband Antenna for Surveillance and SIGINT

MODEL EW7-18/90585



Designed for surveillance and SIGINT purposes these antennas incorporate a number of novel features. They are of very rugged construction in line with government or military applications and offering excellent antenna performance over the waveguide band. They are equally suitable for both EW and Elint applications.

NB A higher power version of this antenna targeted at EW/jamming applications with a WRD750 waveguide interface to the rear of the antenna is also available (*Part Number EW7-18/90436*).

Features

- The feed is machined from solid to provide low VSWR and high power transmission
- The focus of the antenna can be adjusted to either optimise the gain or widen the beam width over the band
- The mounting boss allows rotation for vertical, horizontal or slant antenna polarisation

Technical Data

Antenna diameter	Termination	CW power handling	Pulsed power handling	Rear mounting boss
0.5m	Type N Female	Typically 500W	Typically 5 kW peak	8 equi-spaced M8 tapped holes on 125 pc dia.

Note a higher power version of this antenna terminated with a WRD750 waveguide interface is also available (Part Number EW7-18/90436)

Typical Antenna Gain

Frequency GHz	7.5	8	10	12	14	16	18
Gain dBi	29.5	30.3	32.5	34.0	35.0	35.7	35.0
-3dB Beamwidth	6.8	6.4	4.9	4	3.7	3.5	3.6



Rear Antenna Mounting Boss

Elite design & manufacture a wide variety of L, C, X, Ku, & Ka band alongside wideband antennas for high-end customers including defence agencies, commercial broadcast networks, systems integrators and research agencies

Contact us for more information on any of our products and services.



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Designed and made in Great Britain

