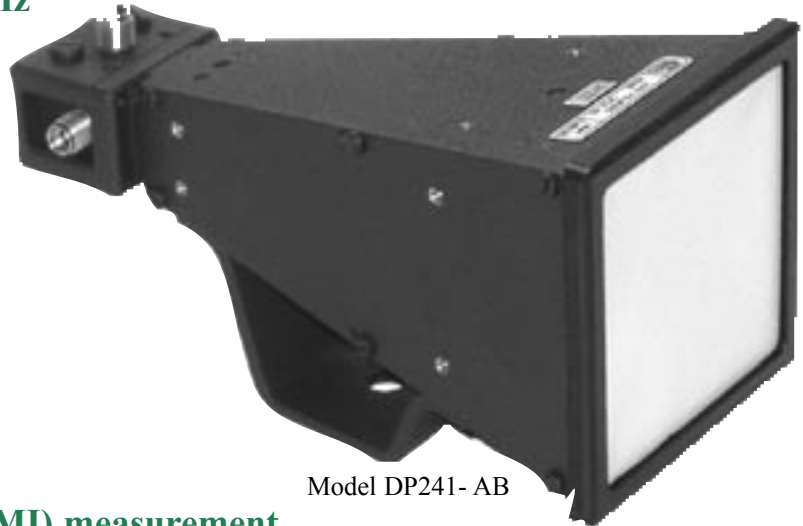


Dual Polarised Horn

Series DP241

Features

- Frequency Range 18 to 40 GHz
- Optionally 10 to 50GHz
- Dual Polarisation
- Close Phase and Amplitude Tracking Between Ports
- High Isolation
- Low Cross Polarisation
- Mounting Bracket
- Weatherproofed



Model DP241- AB

Typical applications include

- Electromagnetic Interface (EMI) measurement
- Antenna Measurement
- Radar Cross Section Measurement

The Flann Dual Polarised Horn, Model DP241 - AB, is a multi-octave, coaxially fed, quadridged horn suitable for many applications requiring a high performance over a broad band. The high performance units cover the frequency range 18 - 40 GHz and offer high isolation with low phase and amplitude imbalance between ports.

The horn maintains a low VSWR while the precision-machined construction ensures very low cross polarisation levels.

Special Dual Polarised Horns are also available operating up to 50GHz using 2.4 connectors.

The standard DP241-AB will function down to 6GHz with a reduced performance.

Specifications

Model	DP241 - AB
Frequency Range	18 to 40 GHz (Options, operational from 6 to 50GHz)
Gain	10 to 18 dBi
Polarization	Simultaneous Horizontal & Vertical
3 dB Beamwidth	Typically 25° to 17°
Typical VSWR Better than	Typically 2.5:1
Cross Polarization	-20 dB (Design Aim)
Isolation Between Ports	25 dB (Design Aim)
Maximum Power CW	5 Watts
Phase Tracking Between Ports	± 25°
Amplitude Tracking Between Ports	1.5 dB Maximum
Standard RF Coaxial Connectors	2.9 'K' Type
Dimensions	
Aperture (mm)	50 x 50
Overall Length (mm)	150
Weight (Kg)	<0.5

ORDERING INFORMATION:

Model DP241-AB; Dual Polarized Horn, 18 to 40GHz.with integral mounting bracket

Series DP241