

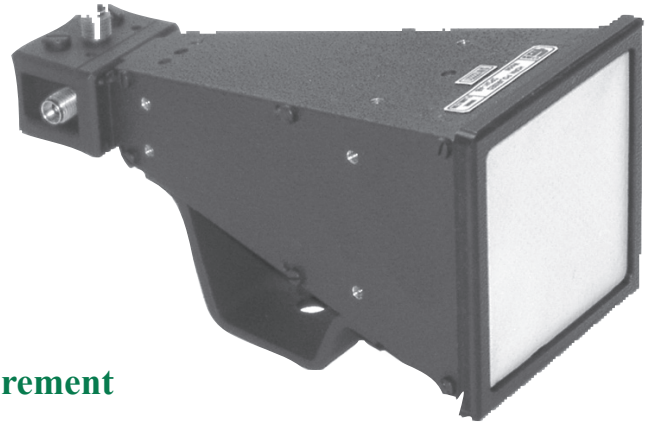
Dual Polarized Horn Series DP241

Features

- Frequency Range 18 GHz to 40 GHz
- Optional Ranges in 6 GHz to 50 GHz
- Close Phase and Amplitude Tracking Between Ports
- High Isolation
- Low Cross Polarization
- Rated to IP54*

Typical applications include

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



Model DP241- AB

The Flann Dual Polarized 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 standard antenna covers the frequency range 18 GHz - 40 GHz and offers high isolation with low phase and amplitude imbalance between ports. Other frequency options are available within the 6 GHz to 50 GHz band.

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

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

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

*SMA, K and 2.4mm connectors are not hermetically sealed. Therefore to achieve IP54 rating the mated cable connection must be adequately sealed.

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

ORDERING INFORMATION:

Model DP241-AB; Dual Polarized Horn, 18 GHz to 40 GHz with integral mounting bracket
Model DP241-AC; Dual Polarized Horn, 6 GHz to 50 GHz (2.4 mm connector)

Series DP241