



Models

- **2 GHz to 18 GHz**
- **18 GHz to 40 GHz**
(optional 6 GHz to 50 GHz bandwidth)

Features

- **Dual Polarization**
- **Close Phase and Amplitude Tracking Between Ports**
- **High Isolation**
- **Low Cross Polarization**
- **Rated to IP54**

Typical Applications Include

- **Electromagnetic Interference (EMI) Measurement**
- **Antenna Measurement**
- **Radar Cross Section Measurement**

The Flann Dual Polarized Horn, Model DP240 and D241-AB is a multioctave, coaxially fed, quad ridged horn suitable for many applications requiring a high performance over a broad band.

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

These high-performance units covering the frequency range 2 GHz to 40 GHz offer high isolation with low phase and amplitude imbalance between ports. The horn maintains a low VSWR while the precision electroformed construction ensures very low cross polarization levels.

Special Dual Polarized DP241 Horns are also available operating up to 50 GHz using 2.4 connectors.



Model DP240-AB



Model DP241-AB

**DP240**

Electrical Specifications	Frequency Range	2 GHz to 18 GHz
	Gain	5 dBi to 18 dBi
	Polarization	Simultaneous Horizontal & Vertical
	3 dB Beamwidth	60° to 10° Nominal
	Typical VSWR Better than	2.5:1
	Cross Polarization	-20 dB Maximum
	Isolation Between Ports	25 dB Typical
	Maximum Power CW	10 Watts
	Phase Tracking Between Ports	± 17° Maximum
	Amplitude Tracking Between Ports	± 1.3 dB Maximum
RF Coaxial Connectors	SMA Female	
Dimensions	Aperture Diameter	135 mm
	Overall Length	300 mm
	Weight	2.75 kg (3.2 kg DP240-AB)

ORDERING INFORMATION:

Model DP240-AA; Dual Polarized Horn, 2 GHz to 18 GHz

Model DP240-AB; Dual Polarised Horn, 2 GHz to 18 GHz with integral mounting bracket

Series DP240

DP241

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 Maximum
	Isolation Between Ports	25 dB Typical
	Maximum Power CW	5 Watts
	Phase Tracking Between Ports	± 25° Maximum
	Amplitude Tracking Between Ports	± 1.5 dB Maximum
RF Coaxial Connectors	2.92 K Type Female	
Dimensions	Aperture Diameter	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 Polarised Horn, 6 GHz to 50 GHz (2.4 mm connector)

Series DP241

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