

High crosspolar log periodic dipole array antennas



WITH EXTREMELY LIGHTWEIGHT AND LOW PROFILE STRUCTURES LPDA FAMILY OFFER VERSATILE SOLUTIONS FOR TIME-SAVING IN TEST RANGE MEASUREMENTS

Overview

Log Periodic Dipole Array Antennas are wideband operation antennas consisting of sequences of linear dipoles connected forming coplanar arrays, allowing efficient automatic testing without standard bands breaks stopping, into lightweight structures

Antennas offer very low VSWR with high gain and very low cross-polarization in frequency range. LPDA antennas are covered by radome structures, in order to protect them and form mechanical structures more stable.

High precision mounting interfaces with levels and absorber collars for anechoic chamber application and detailed calibration report (option).



Applications

- * Satellite communications
- * Radioastronomy
- * Jamming applications
- * Compact antenna test range feeds
- * Spherical near-field antenna test
- * Far-field antenna test range sources

KEY FEATURES

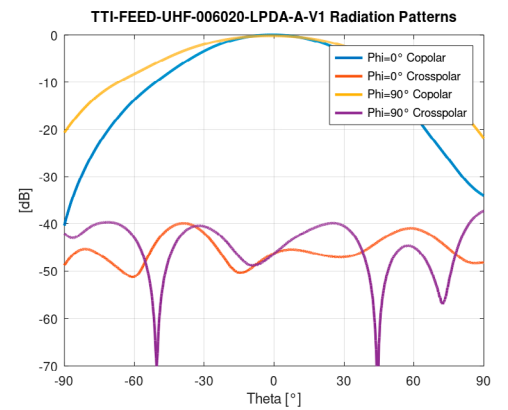
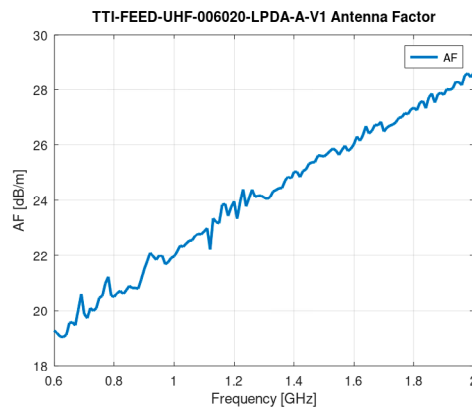
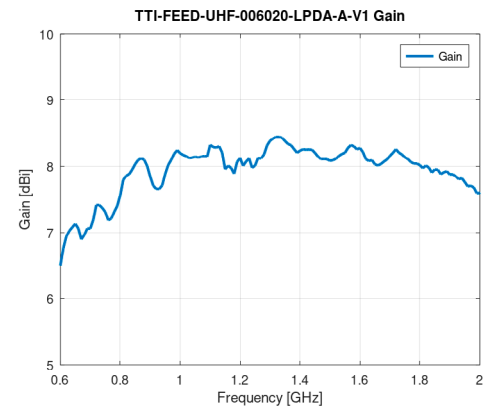
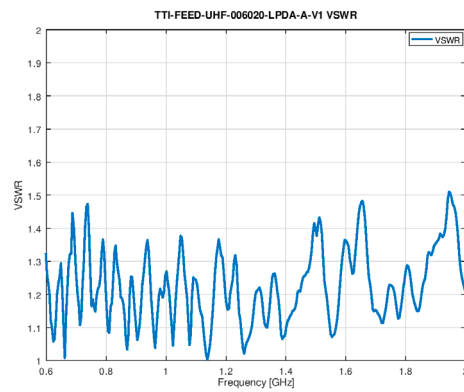
- * Linear polarization
- * Wide bandwidth
- * Stable and high gain performance
- * Low cross polarization
- * Low VSWR
- * High precision design

OPTIONS

- * Detailed calibration report
- * Absorber collar
- * Custom mounting interface
- * Storage case

PRODUCT CODE	Freq. range [GHz]	VSWR	Gain ¹ [dBi]	Antenna factor ² [dB/m]	Crosspolar discrimination ³ [dB]	RF interface
TTI-FEED-UHF-005011-LPDA-A	0.50 - 1.10	< 2.0:1	7.0 ± 0.5	18.0 - 24.0	> 35	SMA (f)
TTI-FEED-UHF-006020-LPDA-A	0.65 - 2.00	< 2.0:1	7.0 ± 0.5	19.0 - 31.0	> 35	SMA (f)

 Typical measured data



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Information contained in this document is subject to change without notice.

Custom frequency bands are available upon request.