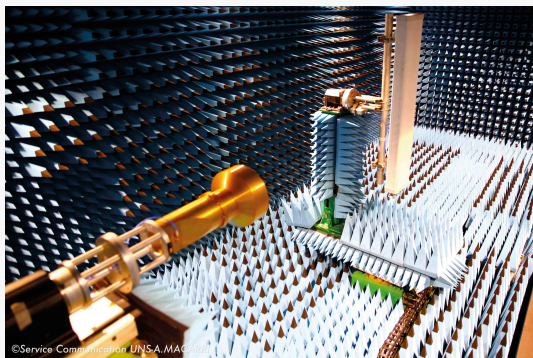


CORRUGATED FEEDS NEAR-FIELD PROBES



Corrugated feeds from ASYSOL are based on open-ended circular waveguide, with several frontal corrugations. As a result of optimised design and high-precision manufacturing, the feeds possess rotationally symmetric radiation patterns with low back radiation and very low cross-polarisation. In standard single-polarisation configuration, the feeds are provided with integrated waveguide-to-coax adapters with SMA or K connectors. In dual-polarisation configuration, the feeds are provided with Ortho-Mode Transducers with very low cross-coupling. In both single-pol and dual-pol configurations, the feeds cover a standard waveguide band. Custom frequency bands are available upon request.

The feeds satisfy the requirement on the spherical modal content ($\mu=\pm 1$) important for spherical Near-Field measurements and thus the feeds are also used as spherical Near-Field probes. Their advantages over the usual open-ended waveguides are: better matching to the feed line, better suppression of the wall reflections, less dependent on the support structure interference, thus allowing more accurate Near-Field antenna measurements.

APPLICATIONS

- * Compact Antenna Test Range Feeds
- * Spherical Near-Field Antenna Test Range Feeds
- * Far-Field Antenna Test Range Sources

WHERE
INNOVATION
IS STANDARD

PRODUCTS OF ASYSOL

Near/Far-Field Ranges · Compact Antenna Test Range · Test Antennas · Motion components · Special Positioning Configuration · Anechoic Chambers · Software

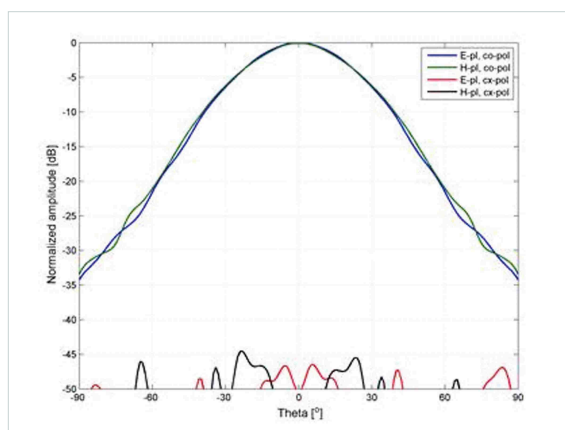
MODEL NO.	Frequency band [GHz]	Gain [dBi]	VSWR	Cx-pol [dB]
ASY-CWG-S/D-005	0.55 – 0.89	10.5	< 1.6:1	< -40
ASY-CWG-S/D-007	0.75 – 1.1	11.0	< 1.6:1	< -40
ASY-CWG-S/D-011	1.1 – 1.7	11.5	< 1.6:1	< -40
ASY-CWG-S/D-017	1.7 – 2.6	11.5	< 1.6:1	< -40
ASY-CWG-S/D-026	2.6 – 3.95	13.5	< 1.5:1	< -45
ASY-CWG-S/D-039	3.95 – 5.85	13.5	< 1.5:1	< -45
ASY-CWG-S/D-058	5.85 – 8.2	13.5	< 1.5:1	< -45
ASY-CWG-S/D-082	8.2 – 12.4	13.5	< 1.5:1	< -45
ASY-CWG-S/D-100	10.0 – 15.0	13.5	< 1.5:1	< -45
ASY-CWG-S/D-124	12.4 – 18.0	13.5	< 1.5:1	< -45
ASY-CWG-S/D-180	18.0 – 26.5	13.5	< 1.5:1	< -45
ASY-CWG-S/D-265	26.5 – 40.0	13.5	< 1.5:1	< -45
ASY-CWG-S/D-400	40.0 – 60.0	13.5	< 1.5:1	< -40
ASY-CWG-S/D-500	50.0 – 75.0	13.5	< 1.5:1	< -40
ASY-CWG-S/D-750	75.0 – 110.0	13.5	< 1.5:1	< -40

ASY-CWG-D-XXX Dual Polarised option available up to 40GHz
Custom frequency bands available upon request

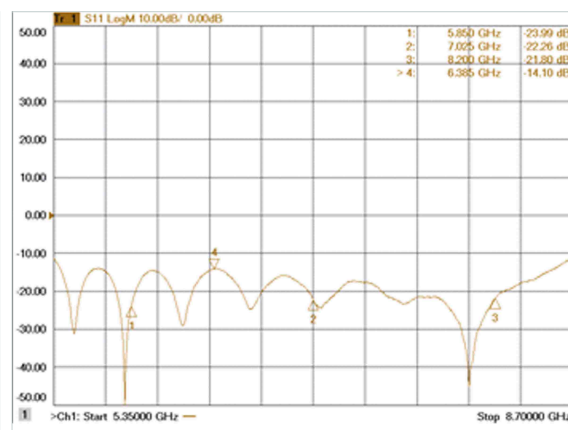
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Radiation Pattern



Return Loss