

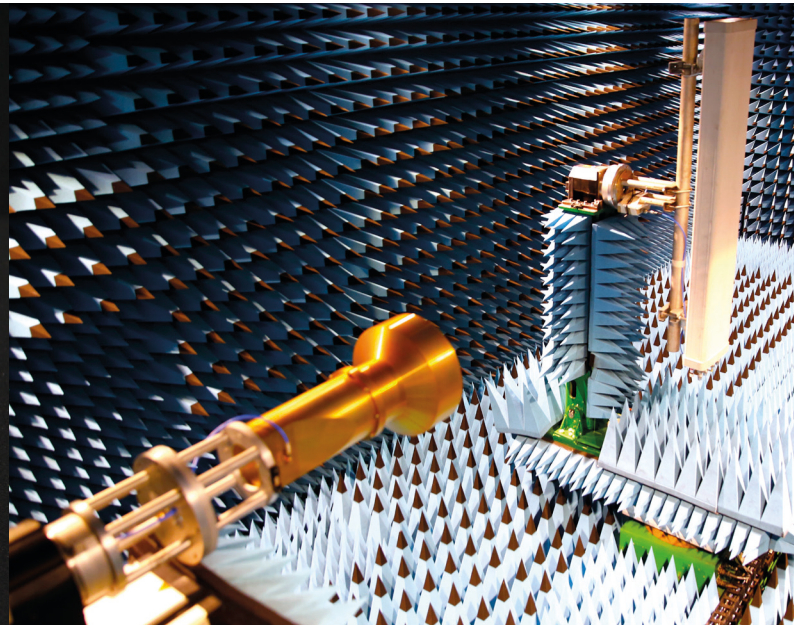
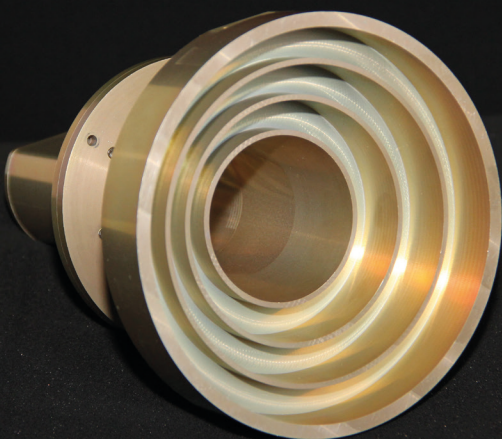


ASY-CWG Series Corrugated Feeds Near-Field Probes

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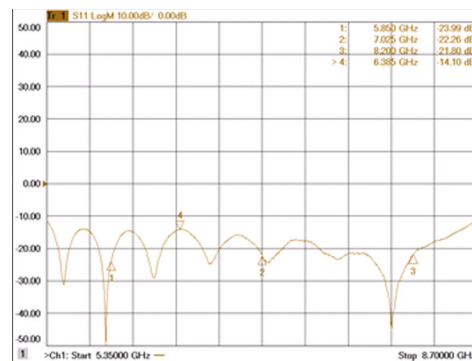
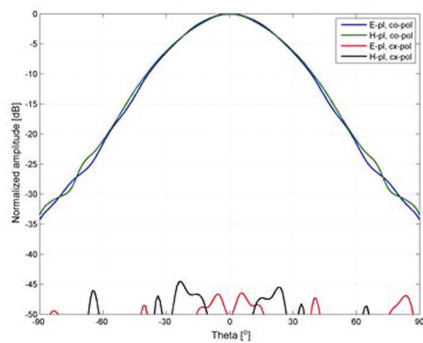


- Corrugated feeds from ASYSOL are based on open-ended circular waveguide with several frontal corrugations. As a result of optimized design and high-precision manufacturing, the feeds possess rotationally symmetric radiation pattern with low back radiation and very low cross-polarization. In standard single-polarization configuration, the feeds are provided with integrated waveguide-to-coax adapters with SMA or K connector. In dual-polarization 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.
- 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 range feeds
 - Spherical near-field probes
 - Far-field sources



MODEL	Frequency band [GHz]	Gain [dBi]	VSWR	Cx-pol [dB]
ASY-CWG-S-005	0.55 – 0.89	10.5	< 1.6:1	< -40
ASY-CWG-S-007	0.75 – 1.1	11.0	< 1.6:1	< -40
ASY-CWG-S-011	1.1 – 1.7	11.5	< 1.6:1	< -40
ASY-CWG-S-017	1.7 – 2.6	11.5	< 1.6:1	< -40
ASY-CWG-S-026	2.6 – 3.95	13.5	< 1.5:1	< -45
ASY-CWG-S-039	3.95 – 5.85	13.5	< 1.5:1	< -45
ASY-CWG-S-058	5.85 – 8.2	13.5	< 1.5:1	< -45
ASY-CWG-S-082	8.2 – 12.4	13.5	< 1.5:1	< -45
ASY-CWG-S-100	10.0 – 15.0	13.5	< 1.5:1	< -45
ASY-CWG-S-124	12.4 – 18.0	13.5	< 1.5:1	< -45
ASY-CWG-S-180	18.0 – 26.5	13.5	< 1.5:1	< -45
ASY-CWG-S-265	26.5 – 40.0	13.5	< 1.5:1	< -45
ASY-CWG-S-400	40.0 – 60.0	13.5	< 1.5:1	< -40
ASY-CWG-S-500	50.0 – 75.0	13.5	< 1.5:1	< -40
ASY-CWG-S-750	75.0 – 110.0	13.5	< 1.5:1	< -40

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



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