



# Dual Linear Cylindrical Horn

## Dual Linear-Polarized Corrugated Cylindrical Horn (DL-CCH)

### Overview

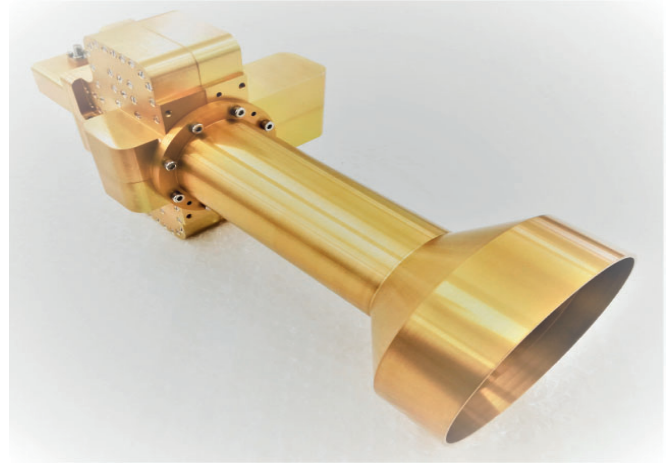
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Dual linear-polarized corrugated cylindrical horns based on cylindrical waveguide horns, with several axial choke corrugations. Standard corrugated cylindrical horns are also available upon request. As a result of optimised design and high-precision manufacturing, horns possess rotationally symmetric radiation patterns with low back radiation and very low cross-polarisation.

From 3.95 GHz, TTI horns are provided with integrated ortho-mode transducers with very low cross-coupling with SMA or K connectors up to 40 GHz and in standard rectangular waveguide flange outputs from 40 GHz, one with vertical polarization and one with horizontal polarization.

Corrugated cylindrical horns are intended for wideband operation, covering all standard waveguide bands. Custom frequency bands are available upon request.

Each horn includes high precision customized mounting interfaces with levels and absorber plates. A detailed calibration report would be available upon request, critical for anechoic chamber applications.



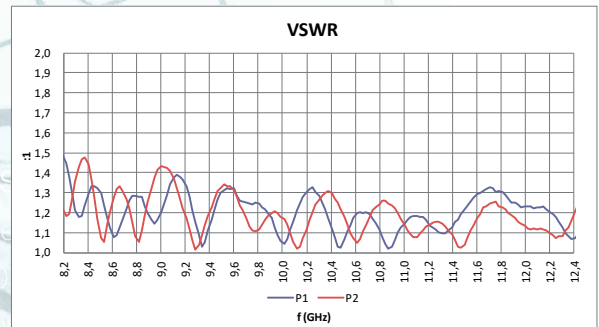
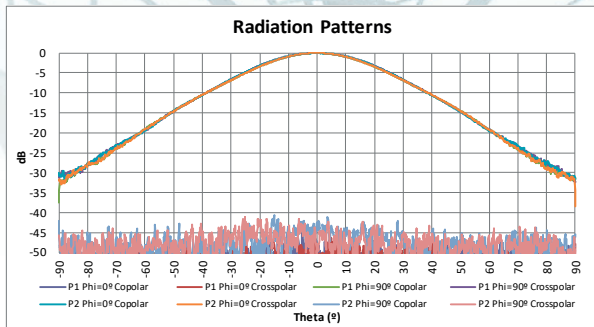
### Applications

- Compact antenna test range feeds
- Spherical near-field antenna test range feeds
- Far-field antenna test range sources
- High efficiency dual polarization reflector feeds



# TECHNICAL SPECIFICATIONS

Product Code	Waveguide Band	Frequency Range [GHz]	VSWR	Cross-Talk Between Ports [dB]		Gain [dBi] (At Center Frequency)	Crosspolar Discrimination [dB] (At Boresight)		Input/Output
				Target	Typical		Target	Typical	
TTI-FEED-UHF-005008-D-A-V1	-	0.55 - 0.89	< 1.6:1	> 40	> 38	11.5 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-UHF-007011-D-A-V1	WR-975	0.75 – 1.10	< 1.6:1	> 40	> 38	11.5 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-L-011017-D-A-V1	WR-650	1.10 – 1.70	< 1.6:1	> 40	> 38	11.5 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-L-014022-D-A-V1	-	1.40 – 2.20	< 1.6:1	> 40	> 38	11.5 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-R-017026-D-A-V1	WR-430	1.70 – 2.60	< 1.6:1	> 40	> 38	11.5 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-S-026039-D-A-V1	WR-284	2.60 – 3.95	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-G-039058-D-A-V1	WR-187	3.95 – 5.85	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-C-058082-D-A-V1	WR-137	5.85 – 8.20	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-H-070100-D-A-V1	WR-112	7.05 – 10.00	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-X-082124-D-A-V1	WR-90	8.20 – 12.40	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-XKu-100150-D-A-V1	WR-75	10.00 – 15.00	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-Ku-124180-D-A-V1	WR-62	12.40 – 18.00	< 1.5:1	> 45	> 42	13.0 ± 0.5	> 45	> 42	SMA Connector



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

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