



Single Linear Cylindrical Horn

Single Linear-Polarized Corrugated Cylindrical Horn (SL-CCH)

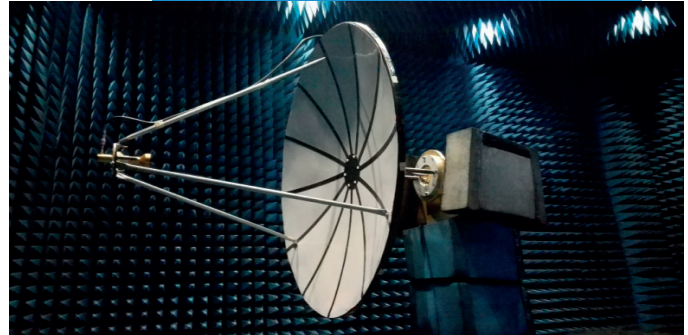
Overview

Our single lineal-polarized corrugated cylindrical horns are 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, our horns possess rotationally symmetric radiation patterns with low back radiation and very low cross-polarisation.

TTI horns are provided with integrated waveguide-to-coax adapters with SMA or K connectors up to 40 GHz and in standard rectangular waveguide flange output from 40 GHz. 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.



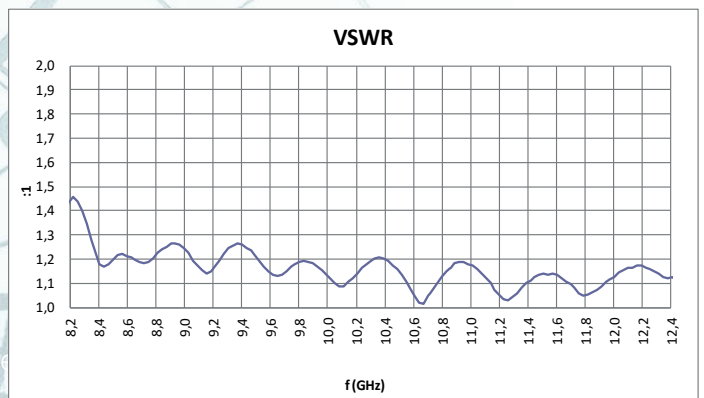
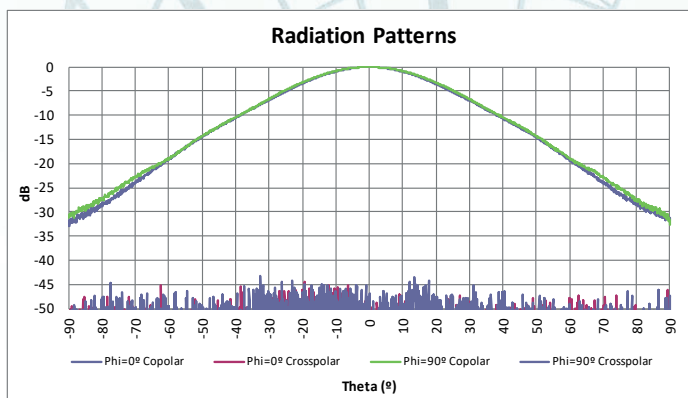
Applications

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



TECHNICAL SPECIFICATIONS

Product Code	Waveguide Band	Frequency Range [GHz]	VSWR	Gain [dBi] (At Center Frequency)	Crosspolar Discrimination [dB] (At Boresight)		Input/Output
					Target	Typical	
TTI-FEED-UHF-005008-A-V1	-	0.55 - 0.89	< 1.6:1	12.0 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-UHF-007011-A-V1	WR-975	0.75 – 1.10	< 1.6:1	12.0 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-L-011017-A-V1	WR-650	1.10 – 1.70	< 1.6:1	12.0 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-L-014022-A-V1	-	1.40 – 2.20	< 1.6:1	12.0 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-R-017026-A-V1	WR-430	1.70 – 2.60	< 1.6:1	12.0 ± 0.5	> 40	> 38	SMA Connector
TTI-FEED-S-026039-A-V1	WR-284	2.60 – 3.95	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-SGC-032060-A-V1	-	3.20 – 6.00	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-G-039058-A-V1	WR-187	3.95 – 5.85	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-C-058082-A-V1	WR-137	5.85 – 8.20	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-H-070100-A-V1	WR-112	7.05 – 10.00	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-X-082124-A-V1	WR-90	8.20 – 12.40	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-XKu-100150-A-V1	WR-75	10.00 – 15.00	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-Ku-124180-A-V1	WR-62	12.40 – 18.00	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-K-180265-A-V1	WR-42	18.00 – 26.50	< 1.5:1	13.5 ± 0.5	> 45	> 42	SMA Connector
TTI-FEED-Ka-265400-A-V1	WR-28	26.50 – 40.00	< 1.5:1	13.5 ± 0.5	> 40	> 35	K (2.92mm) Connector
TTI-FEED-U-400600-A-V1	WR-19	40.00 – 60.00	< 1.5:1	13.0 ± 0.5	> 40	> 35	UG-383/U Flange
TTI-FEED-V-500750-A-V1	WR-15	50.00 – 75.00	< 1.5:1	13.0 ± 0.5	> 40	> 35	UG-385/U Flange
TTI-FEED-E-600900-A-V1	WR-12	60.00 – 90.00	< 1.5:1	13.0 ± 0.5	> 40	> 35	UG-387/U Flange
TTI-FEED-EF-6701150-A-V1	-	67.00 – 115.00	< 1.5:1	13.0 ± 0.5	> 40	> 35	UG-387/U-M Flange
TTI-FEED-W-7501100-A-V1	WR-10	75.00 – 110.00	< 1.5:1	13.0 ± 0.5	> 40	> 35	UG-387/U-M Flange
TTI-FEED-D-11001700-A-V1	WR-06	110.00 – 170.00	< 1.5:1	13.0 ± 0.5	> 40	> 35	UG-387/U-M Flange



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