

Lucentum

Aerospace



2026 Catalog

RF Components

Space Hardware for
NewSpace Teams



Lucentum Aerospace



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Lucentum Aerospace is your single point of contact to source space hardware globally for spacecraft, launch vehicles, and space ground segment applications.

Our pricing and lead times are developed with NewSpace teams in mind.

We represent the Lucentum network, a qualified network of space hardware suppliers with decades of experience ready to support your next mission or program.



For More Information

For additional information, including data sheets or other Lucentum Aerospace catalogs, please visit lucentumaerospace.com or contact:

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Lucentum also offers a catalog with an extensive line of **waveguide components** including sections, adapters, transitions, couplers, bends, RF gaskets, terminations, feed-throughs, and more. Contact us at the above email address or check out our website.

RF Hardware Capabilities Matrix

Product Type	Standard Product (COTS)	Modified From Existing Design	Fully Custom Design
Low Noise Amplifiers	✓	✓	✓
RF Filters		✓	✓
Space Antennas	✓	✓	✓
Power Amplifiers	✓	✓	✓
Frequency Converters & RF Extenders	✓	✓	✓
Bias Tees	✓	✓	✓
Horn Antennas	✓	✓	✓
Directional Couplers	✓	✓	✓
Hybrid Couplers		✓	✓
Antenna Test Hats	✓		✓

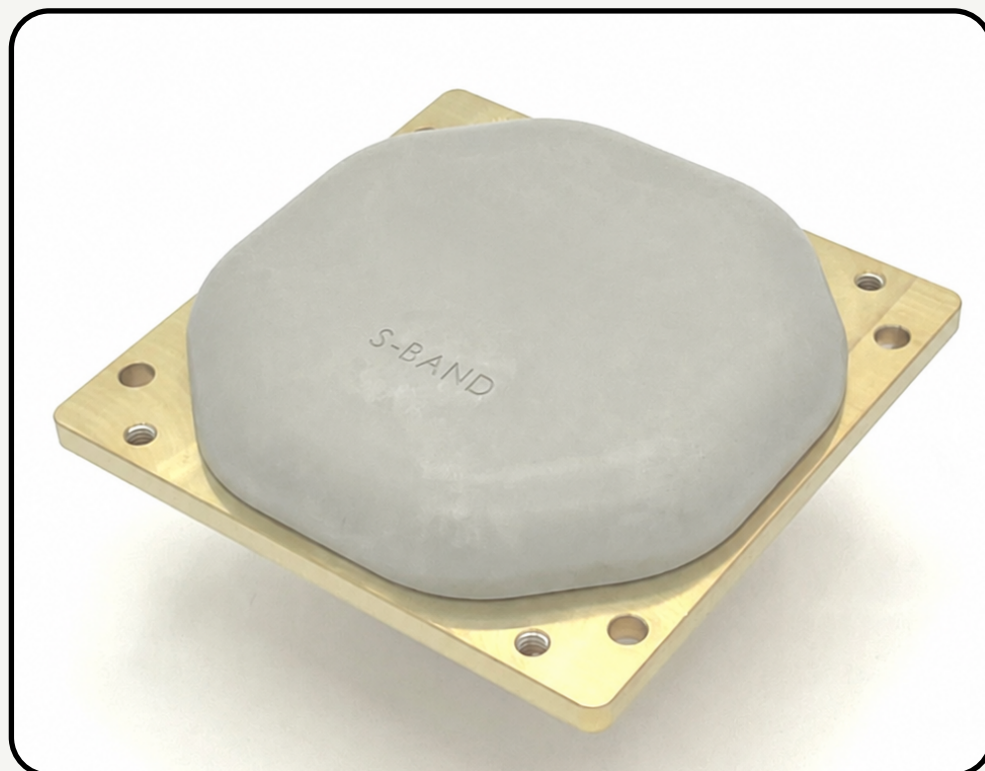


Product Options

COTS

Configurable

Custom



19+ COTS space antenna options, including 17 at TRL 9, for GNSS/GPS, TT&C, and data-link applications. Developed and priced for NewSpace programs, with standing inventory enabling lead times as short as a few days for select small-volume orders.

Testing, Inspection & Quality

- Workmanship inspection
- Acceptance testing available
- Compatible test hats available for many configurations
- Certificate of Conformance (CofC) available upon request
- Consultation services available (link budget, architecture and system design)

Qualification & Environmental Testing

- Designed to NASA GEVS (GSFC-STD-7000)
- Qualified for space applications
- Random vibration tested to 14.1 GRMS
- Operating temperature range from -70°C to +100°C
- Radiation tolerant options available



Standard Products (COTS)

Data sheets available upon request or at lucentumaerospace.com

Matching COTS Antenna Test Hats available for all COTS Space Antennas!

Reference Number	Type	Application	Pattern	Polarization	Frequency Range (MHz)	Gain (dB)	TID (krad)	TRL
CSA-UHF-001-LIN	UHF Omni	TT&C	Omni	Linear	395-405	0.5	—	9
CSA-L-001-RH	GNSS Active	GNSS/GPS	Omni	RHCP	1164-1591	15	500	9
CSA-L-002-RH	GNSS Active	GNSS/GPS	Omni	RHCP	1164-1591	35	500	9
CSA-L-003-RH	GPS L1 Active	GNSS/GPS	Omni	RHCP	1563.42-1587.42	20	250	9
CSA-L-004-RH	GNSS L1/E1 Active	GNSS/GPS	Omni	RHCP	1559-1591	20	500	9
CSA-L-005-RH	L-Band Omni	Data	Omni	RHCP	1510-1675	5	—	9
CSA-S-001-RH	S-Band Active RX Omni	TT&C	Omni	RHCP	2025-2120	32.5	500	9
CSA-S-002-DC	S-Band Dual-CP RX Omni	TT&C	Omni	RHCP/ LHCP	2025-2120	4.5	—	9
CSA-S-003-RH	S-Band Active TX/RX	TT&C	Omni	RHCP	2025-2300	16	500	9
CSA-S-004-RH	S-Band Omni	TT&C	Omni	RHCP	2025-2300	5.5	—	9
CSA-S-005-RH	S-Band Dual-Port Omni	TT&C	Omni	RHCP	2025-2300	4	—	9
CSA-S-006-RH	S-Band Isoflux	TT&C	Isoflux	RHCP	2025-2300	1	—	8
CSA-S-007-DC	S-Band Dual-CP Omni	TT&C	Omni	RHCP/ LHCP	2025-2300	5.5	—	9
CSA-S-008-RH	S-Band 2×2 TX	TT&C	Directional	RHCP	2200-2300	11	—	9
CSA-S-009-DC	S-Band Dual-CP TX Omni	TT&C	Omni	RHCP/ LHCP	2200-2300	4.5	—	9
CSA-X-001-RH	X-Band 2×2 TX	TT&C	Directional	RHCP	8025-8400	10	—	9
CSA-X-002-RH	X-Band 2×2 TX	TT&C	Directional	RHCP	8025-8500	9	—	9
CSA-X-003-RH	X-Band Switched-Beam	TT&C	Directional /Switched	RHCP	8025-8500	9	—	9
CSA-X-004-RH	X-Band Isoflux	TT&C	Isoflux	RHCP	8025-8500	4.5	—	8

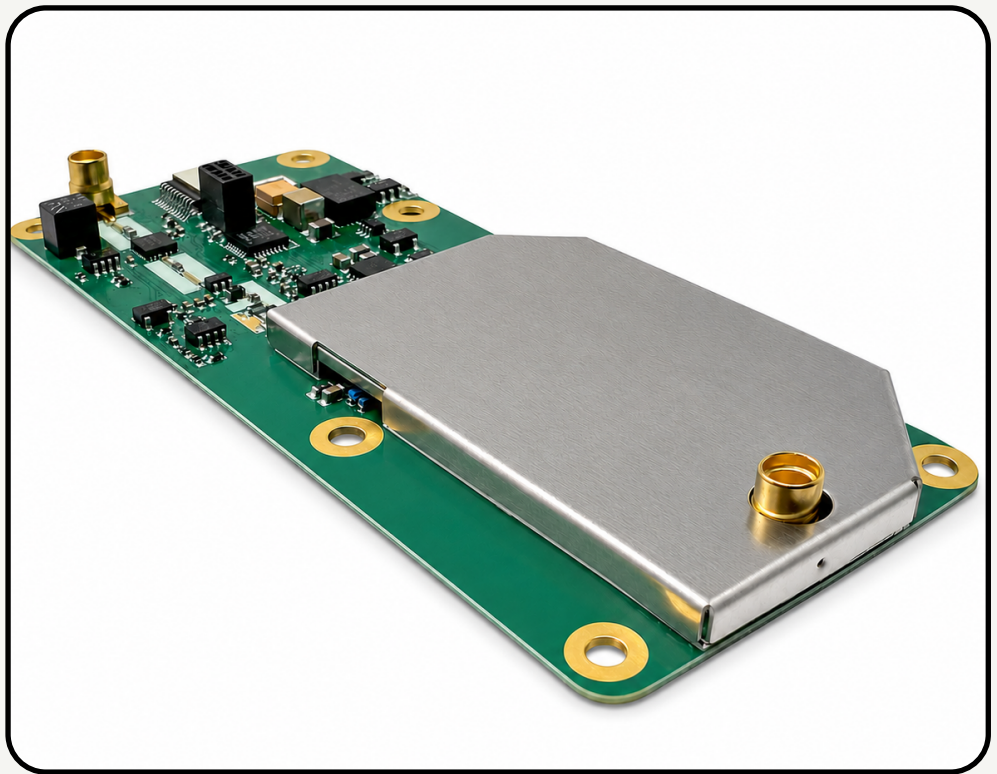


Product Options

COTS

Configurable

Custom



A broad range of COTS, configurable, and custom power amplifiers from UHF through Ka-band, backed by more than 20 years of LEO heritage across 200+ missions. Available in compact card-level and enclosed configurations for TT&C, payload, downlink, and inter-satellite link applications.

Characteristics

Frequency Coverage:	UHF through Ka-band
Technology:	GaN solid-state power amplifiers
Form Factors:	Card-level and enclosed modules
Thermal Management:	Baseplate-conduction cooling

Applications

- Spacecraft TT&C transmitters
- Payload and high-data-rate downlinks
- Inter-satellite links
- CubeSat and SmallSat communication systems



Selected Standard Products (COTS)

Contact for data sheets

Reference Number	Product	Frequency (MHz)	Linear / Saturated Output	DC Input	Form Factor / Mass	TRL
PA-UHF-001	UHF Power Amplifier	380–470	4W Psat	9–14 VDC; 0.8–1.25 A	68.6 × 33.0 × 8.6 mm; 28 g	9
PA-S-001	S-Band CubeSat Power Amplifier	2000–2500	2.5 W P1dB/ 3.2 W Psat	4.75–5.25 VDC; 3.2 A typical	78.1 × 33.2 × 3.8 mm; 14 g	9
PA-CX-001	C/X-Band Power Amplifier	5500–8500	2 W 64QAM/ 5 W BPSK/ 20 W Psat	12–30 VDC; 2.1 A 64QAM/ 2.7 A BPSK at 28 VDC	152.4 × 63.5 × 27.9 mm; 482 g	9
RFS-S-001	Integrated PA/LNA & Filters	TX: 2155–2200; RX: 1970–2035	4 W 64QAM/ 10 W BPSK	27–29 VDC	99.6 × 95 × 50.3 mm; 587 g	9

Note: Only our most popular options for NewSpace applications are shown. A wide variety of additional frequency bands, output-power levels, form factors, and interface configurations are available from UHF through Ka-band.

Contact Lucentum Aerospace for the full product range or application-specific recommendations.

Testing, Inspection & Quality

- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

Qualification & Environmental Testing

- Spaceflight-qualified
- Operating temperature range from –40°C to +85°C
- Humidity tolerance up to 95–100%, configuration dependent
- Shock and vibration qualified per MIL-STD-810

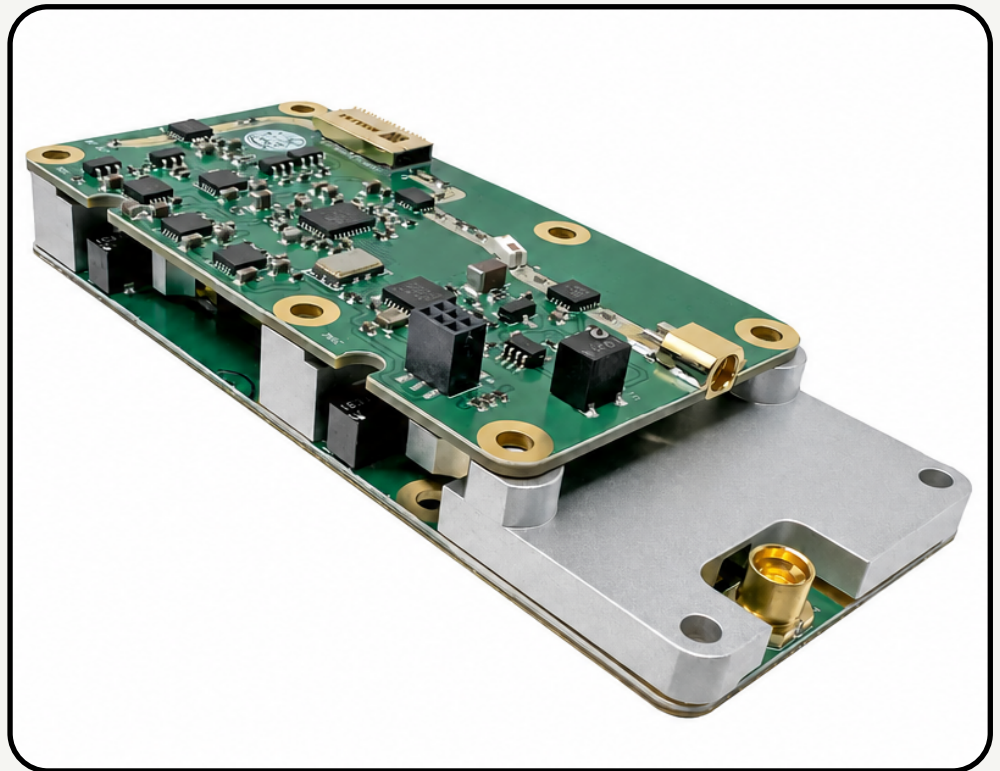


Product Options

COTS

Configurable

Custom



A broad range of COTS, configurable, and custom upconverters, downconverters, and RF extender modules, backed by more than 20 years of spaceflight heritage. Available in compact card-level and enclosed configurations for SDR, payload, TT&C, SATCOM, and test architectures.

Characteristics

Frequency Coverage:

UHF through Ka-band

Conversion Functions:

Upconversion, downconversion, RF extension, and bypass

Directionality:

Unidirectional and bidirectional configurations

Integrated Functions:

Transmit amplification and low-noise receive paths

Form Factors:

Compact card-level and enclosed modules

Applications

- Spacecraft TT&C and payload communications
- High-data-rate downlinks and SATCOM links
- Inter-satellite communication links
- Extending SDR and radio frequency coverage
- CubeSat and SmallSat RF architectures



Selected Standard Products (COTS)

Contact for data sheets

Reference Number	Function	Frequency Plan	Conversion Gain	Output Power/ Noise Figure	DC Input	TRL
FC-SX-001	S-Band to X-Band Upconverter	2125–2625 MHz input → 8000–8500 MHz output	28–30 dB linear gain	3 W typical output	6.5–7.5 VDC; 3.1A operating	9
RFE-XKU-001	Receiver Frequency Extender	7000–12000 MHz input → 1000–6000 MHz output; 600–6000 MHz bypass	39–44 dB	2.5–3.5 dB typical noise figure; 5 dBm maximum output	12 VDC; 0.33 A extender mode; 0.19 A bypass mode	9

Note: Only our most popular frequency converter and RF extender options for NewSpace applications are shown. A wide variety of additional upconverter, downconverter, bidirectional, frequency-plan, power-level, form-factor, and interface configurations are available upon request.

Contact Lucentum Aerospace for the full product range or application-specific recommendations.

Testing, Inspection & Quality

- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

Qualification & Environmental Testing

- Spaceflight-qualified
- Operating temperature range from -40°C to $+85^{\circ}\text{C}$
- Shock and vibration qualified per MIL-STD-810

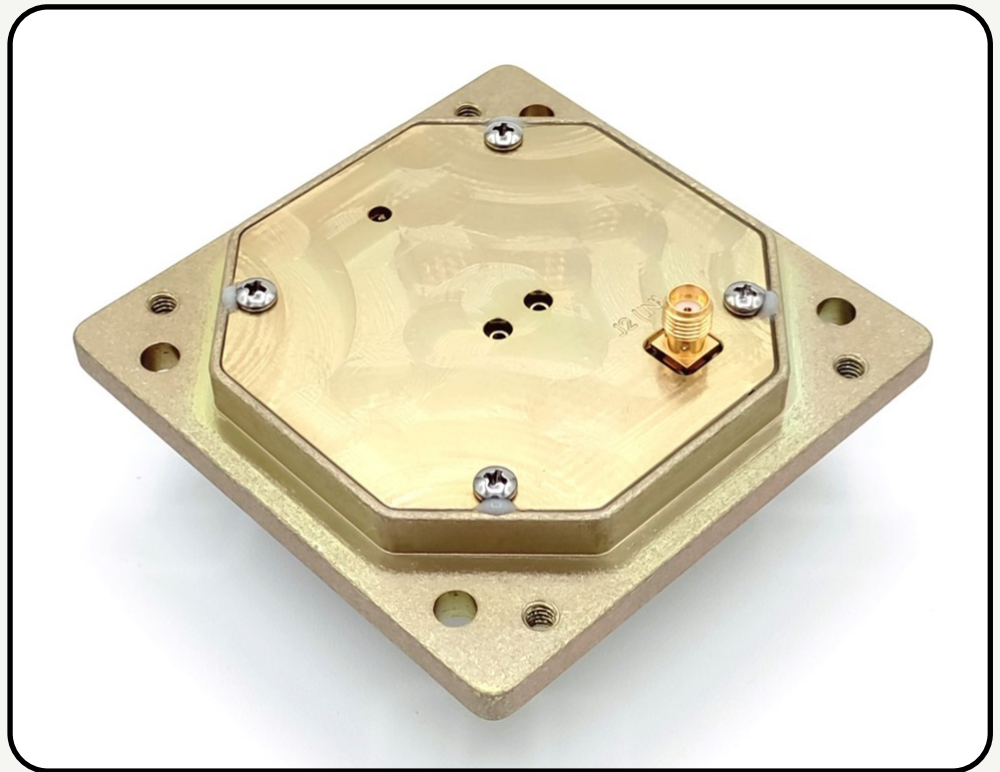


Product Options

COTS

Configurable

Custom



TRL 9 COTS LNAs are available for GNSS/GPS and S-band TT&C receive chains, with radiation-tolerant configurations rated up to 3 Mrad TID. Standing inventory enables lead times as short as a few days for select configurations and small-volume orders.

Characteristics

Frequency Bands:

L-band GNSS/GPS and S-band TT&C

Radiation:

Radiation tolerant

RF Interfaces:

SMA Female Connector

Applications

- Spacecraft navigation systems
- GNSS/GPS receiver front ends
- S-band TT&C receive systems
- Interference-sensitive RF receive chains



Standard Products (COTS)

Data sheets available upon request or at lucentumaerospace.com

Reference Number	Type	Application	Operating Frequency (MHz)	Gain (dB)	Noise Figure (dB)	TID (krad)	TRL
LNA-L-001	GPS L1 LNA	GNSS Navigation/GPS L1	1563 to 1587	15	2.5	500	9
LNA-L-002	GNSS L1/E1 LNA	GNSS Navigation/GPS L1, Galileo E1	1559 to 1591	15	2.5	3000	9
LNA-S-001	S-Band LNA	TT&C Receive	2025 to 2120	28	2.2	250	9
LNA-S-002	S-Band TT&C LNA + Filter	TT&C Receive	2025 to 2120	30	2.5	500	9

Note: All listed configurations use SMA female connectors.

Testing, Inspection & Quality

- Gain and noise figure verification
- S-parameter characterization
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request
- Hardware-in-the-loop testing support
- Irradiation testing support

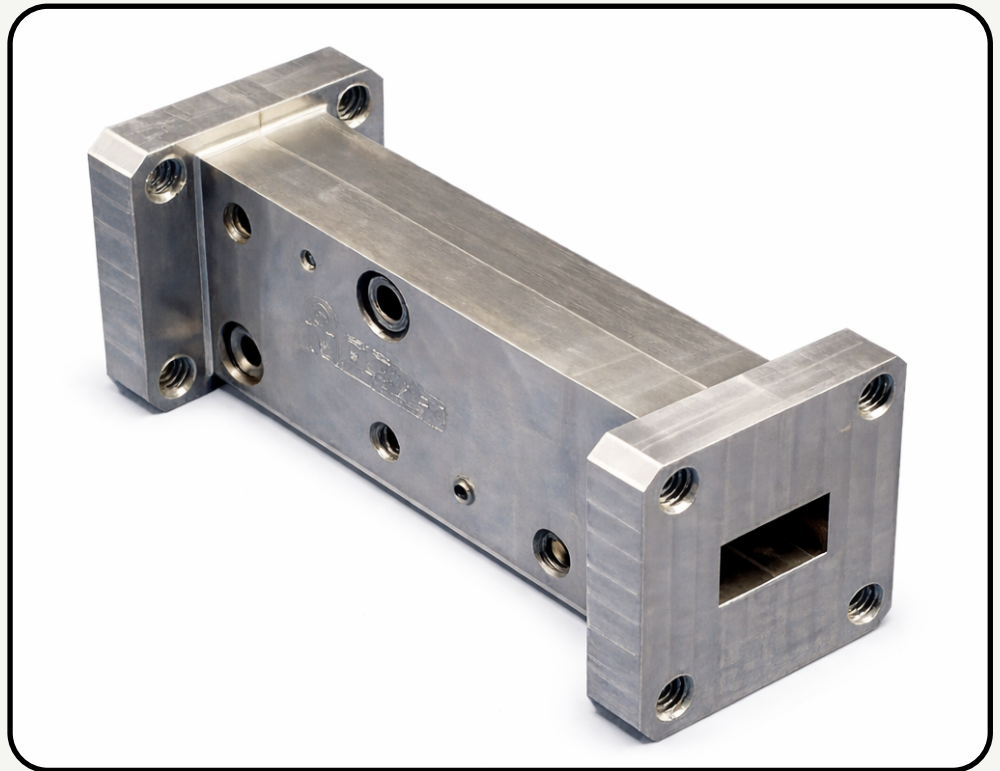
Qualification & Environmental Testing

- Environmental qualification per NASA GEVS
- Random vibration testing to 14.1 GRMS
- Operating temperature range from -70°C to +100°C
- Radiation-tolerant design
- Radiation hardness from 500 krad to 3 Mrad TID, configuration dependent
- Destructive single event effects tested to 37 MeV-cm²/mg



Product Options

Custom



Custom bandpass, low-pass, high-pass, and notch filters from L-band through Ka-band, developed and qualified to meet mission-specific electrical, mechanical, and interface requirements. We specialize in low-volume custom programs and can accommodate short lead times.

Characteristics

Frequency Bands:	L, S, C, X, Ku, Ka
Filter Types:	Bandpass, low-pass, high-pass, notch
Insertion Loss:	Low-loss performance
Rejection:	High out-of-band attenuation
Interfaces:	Coaxial or waveguide

Applications

- Payload and communications signal conditioning
- Front-end and intermediate RF chain filtering
- Out-of-band interference suppression
- Spacecraft and ground segment RF systems



Delivered Configurations

Reference Number	Band	Passband [GHz]	Insertion Loss	Rejection Band [GHz]	Rejection	Heritage/ Maturity
BPF-KA-001	Ka	26.2 to 26.8	0.2 dB	28.5 to 30.0	> 20 dB	On-Orbit on PACE (NASA) Delivered for Roman Space Telescope (NASA)

Note: Listed configuration uses WR-34 interface and has VSWR < 1.5:1.

Testing, Inspection & Quality

- S-parameter testing from 1 to 40 GHz
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

Typical Qualification & Environmental Testing

- Minimum resonant frequency verification
- Random vibration per NASA GEVS Table 2.4-3, 14.1 Grms overall
- Low-level sine sweep at 0.25 g before and after vibration testing
- Thermal cycling based on mission requirements typically -50°C to -110°C low end and +50°C to +90°C high end



Product Options

COTS

Configurable

Custom



Directional couplers for spaceflight, EGSE, ground-segment, and RF test applications. Standing inventory enables lead times as short as a few days for select configurations and small-volume orders.

Characteristics

Frequency Range:	8 to 40 GHz
Coupling Options:	10 dB, 20 dB, 30 dB
Insertion Loss:	Low insertion loss signal path
Directivity:	13 dB minimum
RF Interfaces:	2.92 mm female connectors
Isolation Port:	Plugged with 50 Ω termination

Applications

- RF test and measurement systems
- Broadband microwave signal sampling
- Power monitoring and measurement setups
- RF integration and characterization
- Communications and radar laboratory test architectures



Standard Products (COTS)

Data sheets available upon request or at lucentumaerospace.com

Reference Number	Type	Operating Frequency (GHz)	Coupling	Insertion Loss	Directivity	TRL
DC-BB-001	10-dB Directional Coupler	8 to 40	10 dB	1 dB typical	13 dB minimum	7
DC-BB-002	20-dB Directional Coupler	8 to 40	20 dB	0.5 dB typical	13 dB minimum	7
DC-BB-003	30-dB Directional Coupler	8 to 40	30 dB	0.5 dB typical	13 dB minimum	7

Note: All listed configurations use 2.92 mm female RF connectors.

Testing, Inspection & Quality

- Insertion loss characterization
- Return loss characterization
- Coupled power characterization
- Directivity characterization
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

Environmental & Mechanical

- Operating temperature range from -40°C to +85°C
- Storage temperature range from -70°C to +100°C
- Compact 30 g maximum configuration

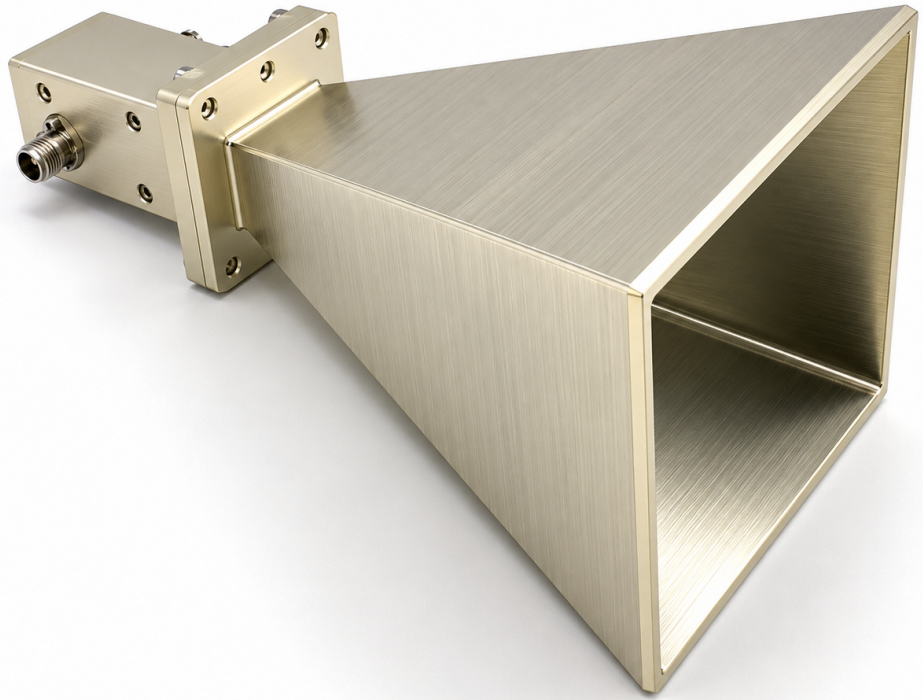


Product Options

COTS

Configurable

Custom



Horn antenna solutions for TT&C communications, spacecraft data links, K/Ka-band SATCOM, antenna range testing, and RF laboratory characterization. Standing inventory enables lead times as short as a few days for select configurations and small-volume orders.

Characteristics

Frequency Coverage:

10 GHz to 40 GHz

Configuration Types:

Dual-port horn antennas,
ridged horn antennas, waveguide probe

Polarization Options:

RHCP/LHCP, linear, dual-linear

RF Interface:

2.92 mm female connector

Applications

- TT&C communications links
- Spacecraft data link systems
- K/Ka-band SATCOM applications
- Space and ground RF link setups
- Antenna range testing
- RF laboratory and characterization setups



Standard Products (COTS)

Data sheets available upon request or at lucentumaerospace.com

Reference Number	Type	Application	Operating Frequency (GHz)	Polarization	Gain	TRL
HA-KKA-001	K-Ka Dual-Port Horn Antenna, 15 dB	TT&C/ SATCOM/ RF Test	17 to 30	RHCP/ LHCP	15 to 18 dBic	8
HA-KKA-002	K-Ka Dual-Port Horn Antenna, 20 dB	TT&C/ SATCOM/ RF Test	17 to 30	RHCP/ LHCP	19 to 21 dBic	8
HA-KKA-003	K-Ka Dual-Port Waveguide Probe	TT&C/ SATCOM/ RF Test	17 to 30	RHCP/ LHCP	6 to 10 dBic	8
HA-BB-001	Quad-Ridged Horn Antenna	Broadband RF Test	10 to 40	Dual-Linear	3 to 11 dBi	8
HA-BB-002	Dual-Ridged Horn Antenna	Broadband RF Test	18 to 40	Linear	8 to 12 dBi	8

Note: All listed configurations use 2.92 mm female RF connectors.

Testing, Inspection & Quality

- Antenna radiation pattern characterization
- S-parameter characterization
- Gain characterization
- Axial ratio characterization, configuration dependent
- Cross-polarization characterization, configuration dependent
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

Environmental & Mechanical

- Operating temperature range from -40°C to +85°C
- Power handling up to 10 W or 20 W, configuration dependent
- Mechanical outline available
- Mass and envelope defined by configuration

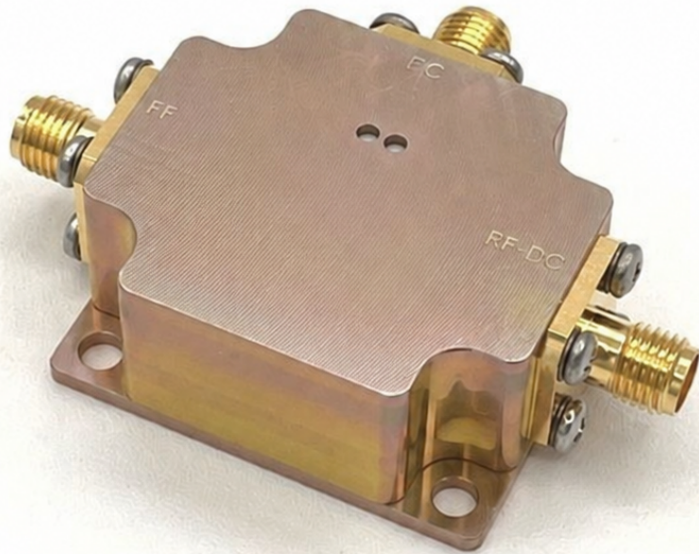


Product Options

COTS

Configurable

Custom



COTS bias tees for clean DC power injection into RF chains, supporting active antennas, LNAs, GNSS/GPS front ends, and TT&C systems. Standing inventory enables lead times as short as a few days for select configurations and small-volume orders.

Characteristics

Frequency Bands:

L-band and S-band

Function:

DC power injection onto RF signal path

Design Focus:

Low insertion loss and high DC-to-RF isolation

RF Interfaces:

SMA female connectors

Applications

- TT&C RF systems
- GNSS/GPS RF front ends
- Spacecraft RF power injection
- Active antenna biasing
- Low noise amplifier biasing
- LEO, MEO, and GEO mission architectures



Standard Products (COTS)

Data sheets available upon request or at lucentumaerospace.com

Reference Number	Type	Application	Operating Frequency (MHz)	Insertion Loss	Isolation	Current	TRL
BT-LS-001	L+S-Band Bias Tee	TT&C / GNSS / Power Injection	1000 to 4000	0.3 dB typical	30 dB	500 mA	8

Note: Listed configuration uses female SMA connector.

Testing, Inspection & Quality

- S-parameter characterization
- Insertion loss characterization
- DC-to-RF isolation characterization
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

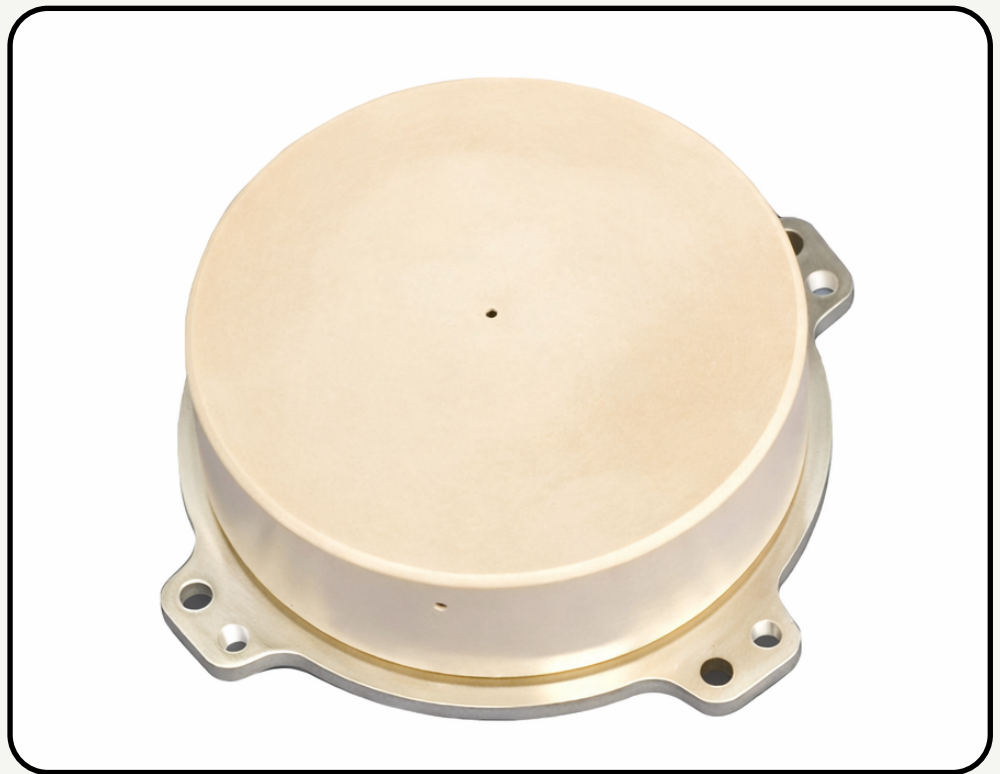
Qualification & Environmental Testing

- Environmental qualification per NASA GEVS
- Random vibration testing to 14.1 GRMS
- Operating temperature range from -70°C to +100°C
- LEO mission life of 10 years
- Humidity testing per MIL-STD-810 Method 507.6
- Sealed configuration with venting mechanism



Product Options

Custom



Custom low-gain antennas from L-band through Ka-band, developed and qualified to meet mission-specific coverage, polarization, RF performance, mechanical, and interface requirements. We specialize in low-volume custom programs and can accommodate short lead times.

Characteristics

Frequency Bands:	S, C, X (L, Ku, and Ka available)
Configuration Types:	Patch or helical
Gain:	Low-gain, wide-area coverage
Radiation Pattern:	Omnidirectional or hemispherical
Polarization:	Linear or circular (RHCP/LHCP)
Interfaces:	Coaxial (waveguide available)

Applications

- Telemetry, Tracking, and Command (TT&C)
- Launch and early orbit phase communications
- Safe-mode communications
- Near-Earth and deep space missions requiring wide coverage



Delivered Configurations

Reference Number	Band	Frequency Range [GHz]	Bandwidth [MHz]	Gain/ Field of View	Polarization	Heritage/ Maturity
LGA-S-001-RH	S	2.025 to 2.120	15	0 dBic over +/- 60 deg FOV	RHCP	Flown Successfully on Kestrel Eye IIM (U.S. Army Space Mission)
LGA-S-002-RH	S	2.200 to 2.300	15	0 dBic over +/- 60 deg FOV	RHCP	Flown Successfully on Kestrel Eye IIM (U.S. Army Space Mission)
LGA-C-001-RH	C	4.000 to 4.200	200	0 dBic over +/- 60 deg FOV	RHCP	Delivered for Confidential Commercial Spacecraft
LGA-C-002-RH	C	5.900 to 6.400	500	0 dBic over +/- 60 deg FOV	RHCP	Delivered for Confidential Commercial Spacecraft
LGA-X-001-LH	X	7.190 to 7.235; 8.450 to 8.500	10 MHz at each Rx/Tx	-3 dBic 65 to 105 deg Elevation	LHCP	Delivered for VIPER (NASA)

Note: All listed configurations use SMA female connectors and have VSWR < 1.5:1

Testing, Inspection & Quality

- Antenna radiation pattern testing from 1 to 40 GHz
- S-parameter testing from 1 to 40 GHz
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

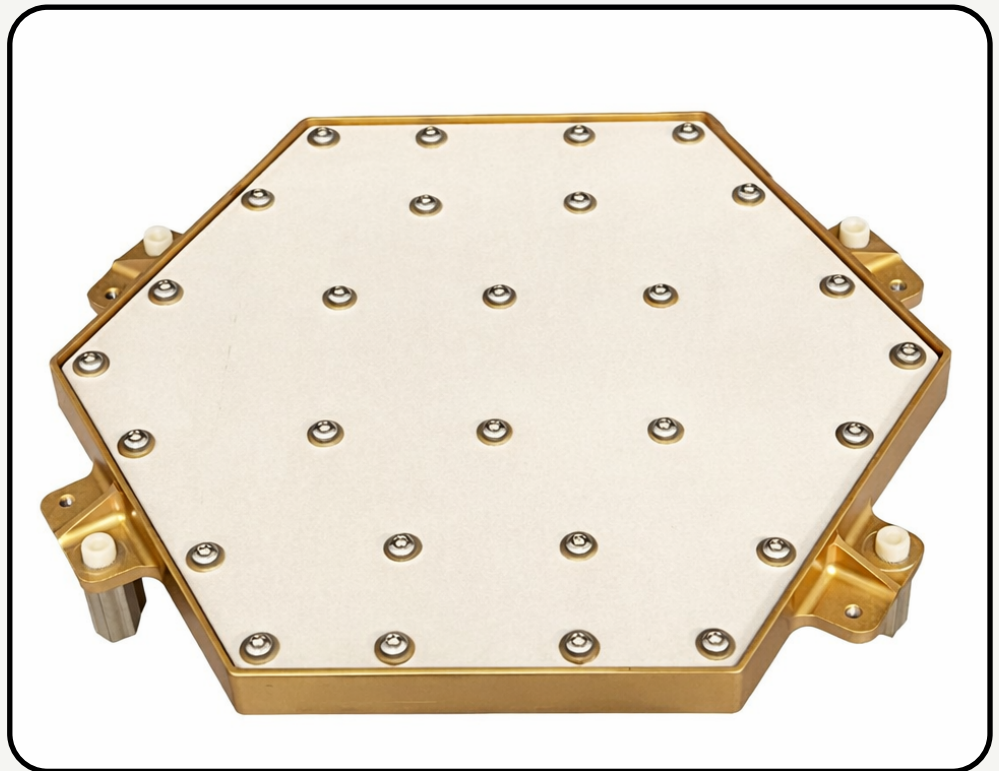
Typical Qualification & Environmental Testing

- Minimum resonant frequency verification
- Random vibration per NASA GEVS Table 2.4-3, 14.1 Grms overall
- Low-level sine sweep at 0.25 g before and after vibration testing
- Thermal cycling based on mission requirements typically -50°C to -110°C low end and +50°C to +90°C high end



Product Options

Custom



Custom flat-panel and parabolic high-gain antennas from L-band through Ka-band, developed and qualified to meet mission-specific RF performance, mechanical, and interface requirements. We specialize in low-volume custom programs and can accommodate short lead times.

Characteristics

Frequency Bands:	L, S, C, X, Ku, Ka
Configuration Types:	Flat panel or parabolic reflector
Gain:	High-gain, directional performance
Radiation Pattern:	Narrow beam, high-directivity
Polarization:	Linear or circular (RHCP/LHCP)
Interfaces:	Coaxial or waveguide

Applications

- High-data-rate spacecraft communications
- Telemetry, Tracking, and Command (TT&C) links requiring directional performance
- Lunar and deep space mission communications
- Mission profiles requiring high-gain directional RF links



Delivered Configurations

Reference Number	Band	Frequency Range [GHz]	Bandwidth [MHz]	Peak Gain	Polarization	Heritage/Maturity
HGA-C-001-RH	C	4.000 to 4.200	200	18 dBic	RHCP	Delivered for Confidential Commercial Spacecraft
HGA-X-001-LH	X	7.190 to 7.235; 8.450 to 8.500	10 MHz at each Rx/Tx	17 dBic Rx/ 27 dBic Tx	LHCP	Delivered for VIPER (NASA)

Note: All listed configurations use SMA female connectors and have VSWR < 1.5:1

Testing, Inspection & Quality

- Antenna radiation pattern testing from 1 to 40 GHz
- S-parameter testing from 1 to 40 GHz
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

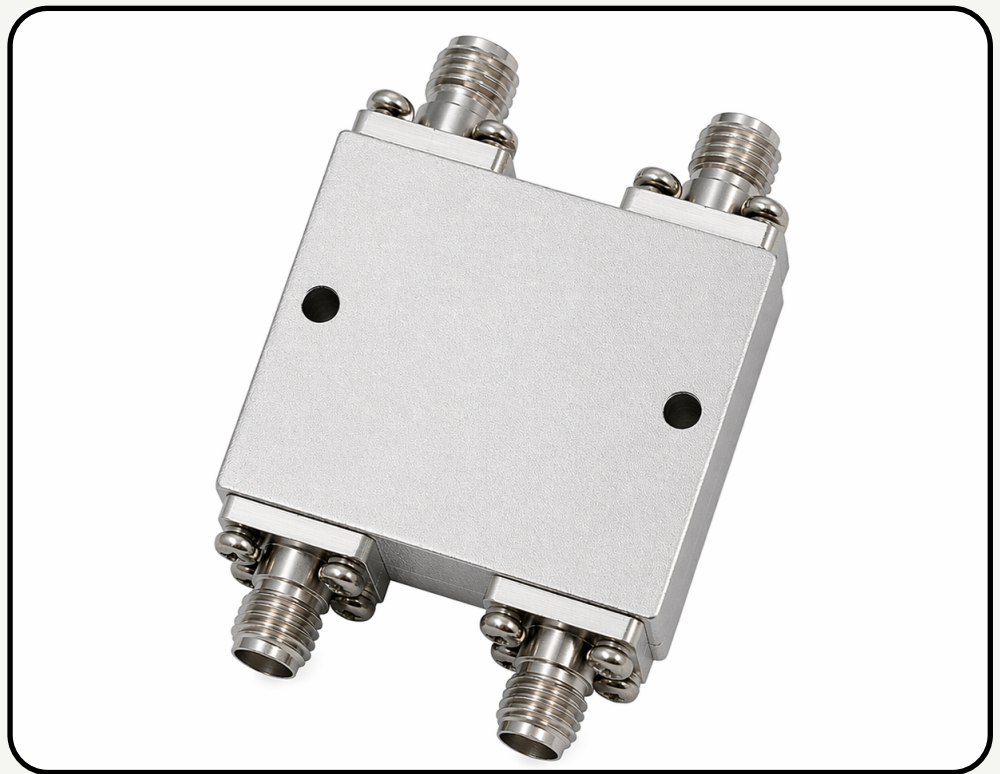
Typical Qualification & Environmental Testing

- Minimum resonant frequency verification
- Random vibration per NASA GEVS Table 2.4-3, 14.1 Grms overall
- Low-level sine sweep at 0.25 g before and after vibration testing
- Thermal cycling based on mission requirements typically -50°C to -110°C low end and +50°C to +90°C high end



Product Options

Custom



Custom hybrid couplers from L-band through Ka-band, developed and qualified to meet mission-specific RF, mechanical, and interface requirements. We specialize in low-volume custom programs and can accommodate short lead times.

Characteristics

Frequency Bands:	L, S, C, X, Ku, Ka
Configurations:	90° or 180° hybrid couplers
Coupling:	3 dB
Interfaces:	Coaxial or waveguide

Applications

- Power splitting and combining in RF chains
- Balanced amplifier and signal distribution architectures
- Beamforming and antenna feed networks
- Spacecraft and ground segment RF systems



Highlighted Configurations

Reference Number	Band	Frequency Range [GHz]	Insertion Loss	Isolation	Style	Heritage/ Maturity
HYB-KA-001	Ka	26.2 to 26.8	0.3 dB	> 20 dB	90 degree	Based on Design for SDO (NASA)

Note: Listed configuration uses WR-34 interface and has VSWR < 1.5:1.

Testing, Inspection & Quality

- S-parameter testing from 1 to 40 GHz
- Workmanship inspection
- Acceptance testing before shipment
- Certificate of Conformance (CofC) available upon request

Typical Qualification & Environmental Testing

- Minimum resonant frequency verification
- Random vibration per NASA GEVS Table 2.4-3, 14.1 Grms overall
- Low-level sine sweep at 0.25 g before and after vibration testing
- Thermal cycling based on mission requirements typically -50°C to -110°C low end and +50°C to +90°C high end



Product Options

COTS

Configurable

Custom



Lucentum offers matching COTS antenna test hats for our COTS space antennas!

Lucentum can also support custom antenna test hats for new antennas, existing antennas, or customer-provided antenna designs. Test hats can be developed around the antenna geometry, RF interface, frequency band, polarization, and required test setup.

Contact us to find out more!

Applications

- Spacecraft antenna functional testing
- RF path verification
- Integration and checkout activities
- Production and acceptance test support
- Laboratory RF testing
- Test support where free-space testing is impractical

