SYNERGY TELECOM PVT LTD

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UHF Satcom Antenna - 19H429

The 19H429 is a combined low-high angle, light weight and high efficiency airborne UHF satellite communications antenna providing hemispheric pattern coverage by means of two independent co-located elements built into a single, aerodynamic shell. The antenna is designed to operate in high temperature environments.

Electrical specs

Minimum Frequency - 225
Maximum Frequency - 400
Impedence - 50
Return Loss VSWR
Low angle: -6.7 dB max (2.7:1) Gain
Low angle: Average within 2 dB of a quarterwave stub
(+4 dBi typical) Polarization
Low angle: Predominantly vertical

Mechinical specs

Mass - kg1.02
Connerctor Type
Low angle: TNC female

Standard specs

Altitude ft - 30000
Continuous Operating Temperature
Min - C - 57
Continuous Operating Temperature
Max C- 71

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Broadband Passive Blade Antenna - 20-200-F18LP

The 20-200-F18LP is a broadband passive blade antenna intended for use over the VHF and UHF communications bands of 30-88 MHz, 108-174 MHz and 225-400 MHz, plus 960-1220 MHz. It has been designed for full lightning protection and has a mechanical structure that makes it suitable for use on high performance aircraft. It is intended for general airborne applications.

Electrical specs

Minimum Frequency - 30
Maximum Frequency - 400
Impedence - 50
Return Loss VSWR - 30- 88 MHz: ≤ 2.5:1
Gain - 30 MHz: ≤-25 dBi
Polarization - Vertical
Radiation Pattern Azimuth - Omnidirectional
Peak Power Watts - 500
Average Power Watts - 23

Mechinical specs

Full Dimensions
LxWxH mm
457 x 91 x 312
Mass kg - 1.8
Connector Type
U/VHF: TNC Female

Standard specs

Altitude ft - 50000
Continuous Operating Temperature
Min -51C
Continuous Operating Temperature
Max 70C
Vibration MIL-STD-810E, Method
514.6, Proc I, cat 5
Standards MIL-STD-810

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Multiband Passive Antenna - 12-200

Type 12-200 is a multi-band passive antenna operating over the frequency bands 30-88MHz,m 108-174MHz and 225-400MHz.

Electrical specs

Minimum Frequency - 30
Maximum Frequency - 400
Impedence - 50
Return Loss VSWR
30 - 88 MHz: <2.5:1
Gain - 30 MHz: -24 dBi
Polarization - Vertical
Radiation Pattern Azimuth
Omnidirectional
Radiation Pattern Elevation
Omnidirectional
Peak Power Watts - 100
Average Power Watts - 50

Mechinical specs

Full Dimensions LxWxH mm
299 x 91 x 373
Mass kg - 1.7
Connector Type
N Type Female

Standard specs

Altitude ft - 35000
Continuous Operating
Temperature Min -55C
Continuous Operating
Temperature Max 70C
Vibration - RTCA DO-160C,
Sect 8, Cat C
Standards - DO-160

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Dual band V/UHF Blade Antenna - 12-10-4

Dual band V/UHF antenna for airborne transmission and reception at speeds up to 0.85 Mach. Each band has separate connector, permitting simultaneous operations. One-piece cross ribbed glassfibre moulding, avoiding problems commonly experienced with split shell mouldings, foam fillings, and structural metal-to-dielectric junctions, with their problems of differential expansion and separation.

Electrical specs

Minimum Frequency	150
Maximum Frequency	400
Impedence	50
Return Loss VSWR	≤ 2.0:1
Polarization	Vertical
Radiation Pattern Azimut	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	292 x 63.5 x 370.8
Height Above Base Plate mm	370.8
Mass kg	1.58
Connector Type	VHF: N Type

Standard specs

Continuous Operating Temperature Min - C	70
Continuous Operating Temperature Max C	70

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Dual band Passive V/UHF blade antenna - 12-64

The 12-64 is a dual band V/UHF antenna designed for use over the frequency ranges 116-176 MHz and 225-400 MHz in general subsonic airborne applicatons.

Electrical specs

Minimum Frequency	116
Maximum Frequency	400
Impedence	50
Return Loss VSWR	116 - 176 MHz <2.5:1 max
Gain	116 - 176 MHz >-2 dBi average
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	25
Average Power Watts	25

Mechinical specs

Full Dimensions LxWxH mm	236 x 70 x 318
Mass kg	1.13
Connector Type	12-64 N Female

Standard specs

Altitude ft	30000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810E. Method 514.4. Proc I. Cat 10

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Elliptical Top Plate Loaded V/UHF Blade Antenna - 12-333-4

The antenna system comprises of two tubular half loops which are orientated in anti-phase.

Electrical specs

Minimum Frequency	30
Maximum Frequency	450
Return Loss VSWR	<2.5:1
Gain	30: -23 dBi min;
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	Consinusoidal
Average Power Watts	50

Mechinical specs

Full Dimensions LxWxH mm	328 x 270 x 229
Mass kg	2.04
Connector Type	TNC Female

Standard specs

Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	55
Standards	DO-160

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V/UHF Broadband Antenna - 9-33-26

The 9-33-26 is a combined VHF/UHF broadband antenna designed to provide communications over the frequency range 30 MHz to 512 MHz, and intended for use in general airborne applications.

Electrical specs

Minimum Frequency	30
Maximum Frequency	512
Impedence	50
Return Loss VSWR	< 2.5:1
Gain	>-25 dBi 30 MHz
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	331 x 66 x 173.5
Height Above Base Plate mm	331
Mass kg	1
Connector Type	TNC Female

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55
Vibration	MIL-STD-810E
Standards	MIL-STD-810

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V/UHF Comms Antenna - 16-101

The 16-101 is a lightweight, broadband antenna, designed for the transmission and reception of communications and navigational signals in the frequency range 225 MHz to 400 MHz.

Electrical specs

Minimum Frequency	225
Maximum Frequency	400
Impedence	50
Return Loss VSWR	-2.0:1
Gain	-1 dBi min
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	60

Mechinical specs

Full Dimensions LxWxH mm	232 x 121 x 52
Height Above Base Plate mm	232
Mass kg	0.6
Connector Type	N Female

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	60
Continuous Operating Temperature Max C	90
Vibration	MIL-STD-810B, Method 514, Para 4.6, Proc I
Standards	MIL-STD-810B

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V/UHF Whip Antenna - 18-12

he 18-12 antenna is a high performance, broadband whip antenna designed for specific use over the frequency band 30 MHz to 400 MHz. It is designed predominately for use on helicopters. The 18-12 antenna employs a whip element primarily for use at VHF together with a parasitically excited sleeve monopole designed for operation over the UHF band. Decoupling techniques are incorporated to avoid deleterious interaction and preserve high performance throughout all operating bands. A frequency dependant matching network is fitted to ensure acceptable low band VSWR with minimum loss of gain.

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	30 to 88 MHz: 2.5:1
Gain	30 to 88 MHz: -12 dBi to -6 dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	122 x 94 x 1067
Mass kg	1.13
Connector Type	TNC Female

Standard specs

Altitude ft	15000
Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	55
Vibration	MIL-E-5400T, Curve IIIb
Standards	MIL-STD-810

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Wideband Receive Antenna - 12-210

The 12-210 and 12-210SST are broadband passive blade antennas designed for receive only use over the frequency range 20 to 2500 MHz in general airborne applications.

Electrical specs

Minimum Frequency	20
Maximum Frequency	2500
Impedence	50
Return Loss VSWR	> 6 dB (>3.0:1)
Gain	> -44 dBi @ 20 MHz rising to > -12 dBi @ 88 MHz
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Mass kg	1.7
Connector Type	N Female

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55

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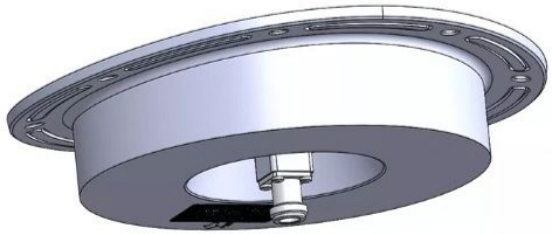
Conformal L-band Antenna - 10-3002-1



Type 10-3002-1 and Type 10-3002-2 are passive conformal antennas for fast jets. The antennas operate over a broad frequency within the L band of 960 to 1220 MHz. They offer omni azimuthal radiation patterns, typical of quarter-wave monopole over a ground plane.

Electrical specs

Minimum Frequency	960
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	≤ 2.0:1
Gain	>2 dBi
Polarization	Linear||Vertical
Average Power Watts	200

Mechinical specs

Mass kg	0.7 (typ) dependant on the local curvature
Connector Type	N Female

Standard specs

Continuous Operating Temperature Min - C	62
Continuous Operating Temperature Max C	89
Lightning	RTCA/DO-160G Sect 23, 1A1A
Standards	Mil Std 810G

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L-band Blade - 10A1

The 10A1 series of L-band antennas are for airborne transmission/reception over the nominal design band 950MHz to >1200MHz, with most variations being due to footprint shape. The 10A1 antennas have no test probe and a HN female connector.

Electrical specs

Minimum Frequency	950
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	<1.7:1 over 950-1220MHz,
Gain	>-3dB relative to resonant monopole
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	133 x 46 x 57
Height Above Base Plate mm	57
Mass kg	0.11
Connector Type	HN

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	135
Vibration	BS 3G100 Pt 2 Sect 3:3.1 Region A. Cat 5.
Standards	DO-160

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High Power UHF, L-band Passive Blade Antenna - 16-113

The 16-113 is a dual band passive airborne blade antenna operating at UHF and L-band frequencies.

Electrical specs

Minimum Frequency	225
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	225 - 240 MHz: <2.5:1
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	100
Average Power Watts	100

Mechinical specs

Full Dimensions LxWxH mm	122 x 53 x 202
Mass kg	0.47
Connector Type	N Female

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	95
Vibration	MIL-STD-810C, Method 514.2, Proc IA modified
Standards	MIL-STD-811

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Dual-band UHF and L-band Blade Antenna - 9-34

The 9-34 is a combined UHF/L-band antenna designed to provide communications over the frequency bands 225 to 400 MHz and 960 to 1220 MHz and intended for use in high performance applications. The 9-34 is configured as a single broadband monopole structure, formed by silver loaded paint on the exterior of a high strength blade. Incorporated in the metallisation are decoupling techniques to prevent corruption of the elevation pattern at a high frequencies. Additionally the antenna incorporates an internally fitted diplexer to provide isolation between the bands.

Mechinical specs

Full Dimensions LxWxH mm	191 x 70 x 244
Mass kg	0.91
Connector Type	225-400 MHz: TNC female

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	138
Standards	MIL-STD-810

Electrical specs

Minimum Frequency	225
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	≤2:1 225-400 MHz
Gain	225-400 MHz: ≤ -1.5 dB
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	4000
Average Power Watts	45

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U/VHF Blade Antenna with UHF SATCOM - 19-4001

The 19-4001 is a combined broadband VHF/UHF communications and UHF satellite communications antenna. It covers the frequency bands 30-88 MHz and 108-174 MHz for communications, 225-400 MHz for Line-of-Sight(LOS) and Beyond Line-of-Sight(BLOS) satellite communications, and 400-512 MHz for Special UHF requirements. In addition, the antenna may be used for either UHF communications or LOS UHF satellite communications (but not both simultaneously) purposes as required. The antenna is low profile in construction and is designed for general airborne application in high temperature environments.

Mechinical specs

Full Dimensions LxWxH mm	404 x 404 x 208
Mass kg	3.7

Standard specs

Altitude ft	15000
Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	120
Vibration	BS 3G 100, Part 2, Section 3:3.1, Procedure 2c Special Requirement
Standards	MIL-STD-810G

Electrical specs

Minimum Frequency	30
Maximum Frequency	512
Impedence	50
Return Loss VSWR	2.5:1 max
Polarization	Vertical||RHCP
Radiation Pattern Azimuth	Omnidirectional

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Combined SATCOM, UHF and GPS Antenna - 19-450-10N

The 19-450 Series and the 19-450-10 are combined UHF satellite communications and GPS antennas. The antenna is low profile in construction and designed for airborne applications.

Mechinical specs

Connector Type	N female

Electrical specs

Minimum Frequency	225
Maximum Frequency	400
Impedence	50
Return Loss VSWR	Low Angle: 2.0:1 max
Gain	Low Angle UHF: Average within 2 dB of a quarter wave stub
Polarization	Low Angle: Vertical

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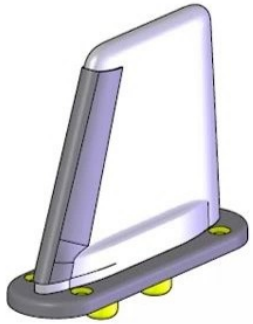

Dual Polarised Blade Antenna - 36-1010

Standard specs

Altitude ft	55000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	70

Mechinical specs

Full Dimensions LxWxH mm	137 x 43 x 104.5
Mass kg	0.3
Connector Type	TNC Female

Electrical specs

Minimum Frequency	3300
Maximum Frequency	3330
Impedence	50
Return Loss VSWR	< 2.0:1
Gain	Port J1 - >6.5dBi
Polarization	Port J1 – Linear, Horizontal
Radiation Pattern Azimuth	Port J1:– nominally omni with ±1.7dB ripple at 20° below horizon
Radiation Pattern Elevation	Port J1 – Peak pointing: 15° to 25° below horizon

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S-Band Blade Antenna - 10-174

Mechinical specs

Full Dimensions LxWxH mm	84 x 20 x 29
Mass kg	0.05
Connector Type	SMA

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	110
Vibration	MIL-STD-810F, Method 514.5, Procedure I, Category 5
Standards	MIL-STD-810F

Electrical specs

Minimum Frequency	2250
Maximum Frequency	2450
Impedence	50
Return Loss VSWR	≤1.5:1
Gain	>+4 dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	1/4 Stub
Peak Power Watts	75

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Wideband Communications Antenna - 32-1000

The 32-1000 is a wideband communications antenna designed to provide GSM, WiFi and LTE connectivity.

Electrical specs

Minimum Frequency	698
Maximum Frequency	3000
Impedence	50
Return Loss VSWR	See datasheet
Gain	See datasheet
Polarization	Linear||Vertical
Peak Power Watts	500
Average Power Watts	100

Mechinical specs

Full Dimensions LxWxH mm	79 x 86 x 39
Mass kg	0.125
Connector Type	TNC Female

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	85

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ECM Antenna - 10-31

Wide band electronic counter-measure (ECM)/electronic surveillance measure (ESM) antenna

Electrical specs

Minimum Frequency	1000
Maximum Frequency	10000
Impedence	50
Return Loss VSWR	1 - 1.5 GHz <5:1;
Gain	Nominally +3.0 dBiL 1 - 10 GHz)
Polarization	Vertical

Mechinical specs

Mass kg	0.125
Connector Type	TNC Female

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55

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Conformal Tuneable U/VHF Antenna - 10-3003-1

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	30 - 88 MHz < 2.5:1 (return loss > 7.36 dB)
Gain	30MHz > -29dBi
Polarization	Vertical
Peak Power Watts	23
Average Power Watts	23

Mechinical specs

Full Dimensions LxWxH mm	606 x 272 x 128
Mass kg	4.31
Connector Type	TNC Female

Standard specs

Continuous Operating Temperature Min - C	62
Continuous Operating Temperature Max C	80
Lightning	A/DO-160G Sect 23, 1C1C

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Low Profile Multiband Blade Antenna - 12-190-310

The 12-190-310 is a multiband, low profile, blade antenna designed for operation in the frequency bands 30-88, 108-174, 225-530 and 960-1220 MHz. Suitable for the ARC 210 radio.

Electrical specs

Minimum Frequency	30
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	30-88 MHz < 2.5:1
Gain	30 MHz > -13 dBi rising to
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Mass kg	1.82
Connector Type	N Female - L Band

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55

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Low Profile Tuneable V/UHF Blade Antenna - 12-190-160

The 12-190-160 is a low profile, top-loaded tuneable, V/UHF blade antenna designed to provide communications in the frequency band 30-512 MHz. It is intended for use in general, rotary wing applications

Electrical specs

Minimum Frequency	30
Maximum Frequency	512
Impedence	50
Return Loss VSWR	<2.5:1
Gain	30 MHz > -15dBi
Polarization	Vertical
Peak Power Watts	25
Average Power Watts	25

Mechinical specs

Full Dimensions LxWxH mm	361 x 91 x 165
Mass kg	1.6
Connector Type	RF: TNC Female

Standard specs

Altitude ft	30000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55
Vibration	MIL-STD-810E, Method 513.4, Proc I, Cat 10

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Low Profile V/UHF Tunable Antenna - 17-225

Electrical specs

Minimum Frequency	30
Maximum Frequency	512
Impedence	50
Return Loss VSWR	< 2.5:1 over all frequency bands
Gain	≤ -18 dBi 30 MHz
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Average Power Watts	25

Mechinical specs

Full Dimensions LxWxH mm	92.5 x 540 x 340
Height Above Base Plate mm	92.5
Mass kg	2
Connector Type	DC: 12-10P

Standard specs

Altitude ft	15000
Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	55
Vibration	MIL-STD-810E, Method 514.4, Procedure I, Category 6
Standards	MIL-STD-810E

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V/UHF Tuneable Antenna - 12-5006

The 12-5006 operates at a power of 50 W to enable use with new high power radios. Low maintenance costs and a resilient antenna mean lower lifecycle costs.

Electrical specs

Minimum Frequency	30
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	<2.5:1 30 MHz-88 MHz
Gain	> -14.5 dBi 30 MHz
Polarization	Vertical
Peak Power Watts	1500
Average Power Watts	50

Mechinical specs

Full Dimensions LxWxH mm	315 x 235 72
Height Above Base Plate mm	235
Mass kg	1.59
Connector Type	RF: N Female, TNC Female

Standard specs

Altitude ft	35000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Standards	MIL-STD-810G, MIL-STD-461, MIL-STD-464, RTCA DO-160G

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Conformal Tuneable U/VHF Antenna - 10-3003-2

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	30 - 88 MHz < 2.5:1 (return loss > 7.36 dB)
Gain	30MHz > -26dBi
Polarization	Vertical
Peak Power Watts	23
Average Power Watts	23

Mechinical specs

Full Dimensions LxWxH mm	537 x 488 x 131
Mass kg	6.13
Connector Type	TNC Female

Standard specs

Continuous Operating Temperature M C	62
Continuous Operating Temperature M	80
Lightning	RTCA/DO-160G Sect 23, 2A2A

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Low Profile V/UHF L-Band Tuned Antenna - 12-190-6/1

Electrical specs

Minimum Frequency	30
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	30-88 MHz: ≤2.5:1
Gain	4.5 dBi at 30 MHz rising to
Polarization	Vertical
Peak Power Watts	1500

Mechinical specs

Full Dimensions LxWxH mm	316 x 71 x 235
Mass kg	1.59
Connector Type	30- 400 MHz:

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810D Method 514.3, Procedure I
Lightning	MIL-STD-1757, Method TO2, Zone 1B, Induced voltage at RF terminals shall be less than 500 V
Standards	MIL-STD-810

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Multiband Tuneable Antenna - 12-4004-1

Electrical specs

Minimum Frequency	30
Maximum Frequency	600
Impedence	50
Return Loss VSWR	Frequency (MHz) Connector Type Return Loss (dB) VSWR
Gain	Frequency (MHz) Connector Type Gain (dBi)
Polarization	Vertical

Mechinical specs

Mass kg	2
Connector Type	TNC Female

Standard specs

Altitude ft	25000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71

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Tall Tuneable VUHF Blade Antenna - 12-126

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	30-88 MHz < 2.5:1
Gain	30 MHz ≤ -12 dBi
Polarization	Vertical
Peak Power Watts	20
Average Power Watts	20

Mechinical specs

Full Dimensions LxWxH mm	301 x 91 x 409
Mass kg	2
Connector Type	RF: TNC Female

Standard specs

Continuous Operating Temperature Min - C	35
Continuous Operating Temperature Max C	70
Vibration	BS 3G100 Pt 2 Section 3.3.1 Region A Cat 3

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Top-Loaded Tuneable Blade Antenna - 12-190-111G

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	< 2.5:1 30-88 MHz
Gain	30 MHz > -15dBi
Polarization	Vertical

Mechinical specs

Full Dimensions LxWxH mm	300 x 70 x 231
Mass kg	1.35
Connector Type	RF: N Female

Standard specs

Altitude ft	45000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-T-5422, Para 4.2 Proc I curve IIIb of MIL-T-5400

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UHF Broadband Antenna - 12-437-13

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	≤ 2.5:1 30 MHz-88 MHz
Gain	≤-14.5 dBi 30 MHz≤-
Polarization	Vertical
Average Power Watts	20

Mechinical specs

Full Dimensions LxWxH mm	304.8 x 317.5 x 110.5
Height Above Base Plate mm	304.8
Mass kg	2.5
Connector Type	RF: TNC Female

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55
Vibration	MIL-STD-810C, Method 514.2, Procedure I, Category b1
Standards	MIL-STD-810C

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V/UHF L-Band Antenna - 12-190-229

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	≤2.5:1
Gain	30 MHz: ≤-13dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Average Power Watts	30

Mechinical specs

Full Dimensions LxWxH mm	396 x 71 x 254
Mass kg	1.8
Connector Type	TNC female

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	57
Standards	DO-160

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V/UHF Tuneable Blade Antenna - 12-190-60

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	30- 88 MHz: ≤2.5:1
Gain	30 MHz: ≤-14.5 dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	315 x 71 x 235
Mass kg	1.6
Connector Type	TNC female

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810D, Method 514.3, Procedure 1
Standards	MIL-STD-810

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Very Low Profile Tuneable V/UHF Blade Antenna - 12-224

Mechinical specs

Full Dimensions LxWxH mm	140 x 91 x 380
Mass kg	1.6
Connector Type	RF 29.7-88MHz: N type female

Electrical specs

Minimum Frequency	29.7
Maximum Frequency	960
Impedence	50
Return Loss VSWR	≤2.5:1 all bands
Gain	30 MHz: -15 dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	15
Average Power Watts	15

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810E. Method 514.4. Proc I. Cat 10
Standards	MIL-STD-810

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Very Low Profile V/UHF Antenna - 12-226

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	≤ 2.5:1 all bands
Gain	≤ -14 dBi30 MHz≤ -7 dBi88 MHz≤ -3 dBi average118 MHz-174 MHz≤ 0 dBi average225 MHz-400 MHz
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Average Power Watts	15

Mechinical specs

Full Dimensions LxWxH mm	417 x 167 x 90.5
Height Above Base Plate mm	167
Mass kg	1.35
Connector Type	RF: TNC Type Female DC:PT12-10P

Standard specs

Altitude ft	15000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810C, Method 514.2, Category c, Procedure I (modified)
Standards	MIL-STD-810C

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V/UHF L-Band Tuneable Blade Antenna - 12-190-530LP

Electrical specs

Minimum Frequency	30
Maximum Frequency	1220
Impedence	50
Return Loss VSWR	≤ 7.36 dB (VSWR ≤ 2.5:1) 30 MHz to 88 MHz
Gain	≤ -14.5 dBi at 30 MHz
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	315 x 71 x 234
Mass kg	1.59
Connector Type	30 - 400: TNC female;

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810E, Method 514.4, Procedure I, Category 4
Lightning	MIL-STD-1757, Zone 2B
Standards	MIL-STD-810

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Low Profile Tuneable Blade Antenna - 12-225

Electrical specs

Minimum Frequency	30
Maximum Frequency	400
Impedence	50
Return Loss VSWR	2.5:1 max
Gain	30 to 88 MHz: -15 dBi to -7.5 dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	23
Average Power Watts	23

Mechinical specs

Full Dimensions LxWxH mm	361 x 91 x 133
Mass kg	1.59
Connector Type	TNC Female

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810B Method 514.3 Procedure I (modified)
Lightning	901-370-202 Para 3.6.2.1
Standards	MIL-STD-811

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Tuneable VHF Blade Antenna - 12-437-1

Electrical specs

Minimum Frequency	30
Maximum Frequency	174
Impedence	50
Return Loss VSWR	30-88MHz: 2.5:1 max
Gain	30MHz ≤ -9dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Average Power Watts	20

Mechinical specs

Full Dimensions LxWxH mm	318 x 110 x 305
Mass kg	2.5
Connector Type	RF: TNC Female

Standard specs

Altitude ft	30000
Vibration	MIL-STD-810C Method 514 Proc 1 (Fig 514.2-2 Curve C)
Standards	MIL-STD-810C

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VHF Tuneable Blade Antenna - 12-146

Electrical specs

Minimum Frequency	30
Maximum Frequency	88
Impedence	50
Return Loss VSWR	30-88 MHz < 3.0:1
Gain	30 MHz > 6.0 dBi
Polarization	Vertical
Peak Power Watts	25
Average Power Watts	25

Mechinical specs

Full Dimensions LxWxH mm	301 x 92 x 400
Mass kg	1.95
Connector Type	TNC Female

Standard specs

Altitude ft	25000
Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	85
Vibration	MIL-STD-810E, Method 514.4, Proc I, Cat 6 mod

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VHF AM/FM Tuneable Antenna - 9-229

Electrical specs

Minimum Frequency	30
Maximum Frequency	152
Impedence	50
Return Loss VSWR	≤2.5:1
Gain	30: -13 dBi;
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	As electrically short monopole
Peak Power Watts	15

Mechinical specs

Full Dimensions LxWxH mm	208 x 66 x 229
Mass kg	1.36

Standard specs

Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	55
Vibration	MIL-STD-810C
Standards	DO-160

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Multiband Tuneable Blade Antenna - 12-5002

Electrical specs

Minimum Frequency	29.7
Maximum Frequency	960
Impedence	50
Return Loss VSWR	< 2.5:1)
Gain	> -14 dBi at 30 MHz rising to
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	356 x 70 x 241
Mass kg	1.22
Connector Type	N Type 30-400MHz

Standard specs

Altitude ft	50000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	70
Vibration	RTCA DO-160F, Section 8, Categories U2 and S, Curves C, F, F1, L, M and Y
Lightning	RTCA DO160F, Sect 23, Cat XXXX
Standards	RTCA DO-160F

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HF Towel Rail Antenna
Array 435 Series

Mechinical specs

Full Dimensions LxWxH mm	Contact us for info
Connector Type	Various

Standard specs

Altitude ft	30000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810C, Meth 514.2, Proc I, Cat C, Table 514.2-III, Fig. 514.2-3, Curve M

Electrical specs

Minimum Frequency	2
Maximum Frequency	30

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Lightweight low profile VHF Antenna - 16-21

Electrical specs

Minimum Frequency	118
Maximum Frequency	137
Impedence	50
Return Loss VSWR	≤ 2.5:1 - 118 MHz-136 MHz
Gain	1 dBi (minimum) 118 MHz-136 MHz
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	Quarter-wave monopole

Mechinical specs

Full Dimensions LxWxH mm	258 x 415.3 x 52.1
Height Above Base Plate mm	258
Mass kg	0.49
Connector Type	BNC or TNC Male

Standard specs

Altitude ft	35000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	70
Vibration	RTCA DO-160D, Section 8, Category S
Standards	RTCA DO-160D

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Lightweight whip antenna for general VHF applications - 21-4B

Electrical specs

Minimum Frequency	118
Maximum Frequency	152
Impedence	50
Return Loss VSWR	<2.5:1
Gain	2dBi (average)
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Average Power Watts	35

Mechinical specs

Full Dimensions LxWxH mm	562mm high
Height Above Base Plate mm	558
Mass kg	0.14
Connector Type	BNC Female, TNC Female

Standard specs

Altitude ft	25000
Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	70
Vibration	RTCA DO-160C, Section 8, Categories L and Y.

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Active GPS Patch Antenna - 20-2041

Mechinical specs

Full Dimensions LxWxH mm	89 x 89 x 27
Height Above Base Plate mm	27
Mass kg	0.25
Connector Type	TNC Female

Electrical specs

Minimum Frequency	1227.6
Maximum Frequency	1575.42
Impedence	50
Return Loss VSWR	< 2.0:1
Gain	> 29dBiC, Exceeds DO-301 requirement
Polarization	RHCP

Standard specs

Altitude ft	55000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	90
Vibration	MIL-STD-810G, Method 514.6, Proc I, Annex D, Cat 14
Lightning	EUROCAE ED-84
Standards	MSO-C144, TSO-C190, RTCA DO-301, RTCA DO-229

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Combined MLS/DME-P Blade Antenna - 10-52

Electrical specs

Minimum Frequency	960
Maximum Frequency	5100
Return Loss VSWR	960 - 1215 MHz: < 1.5:1
Gain	Peak gain ≤ 6 dBi
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Peak Power Watts	1500
Average Power Watts	15

Mechinical specs

Full Dimensions LxWxH mm	86 x 39 x 79
Mass kg	0.25
Connector Type	960 - 1215 MHz: N Type Female

Standard specs

Altitude ft	35000
Continuous Operating Tempre Min - C	45
Continuous Operating Tempre Max C	71
Vibration	MIL-STD-810D Method 514.3
Standards	DO-160

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ILS Marker Antenna - 17-9T

Mechinical specs

Full Dimensions LxWxH mm	230 x 65 x 49
Mass kg	0.25
Connector Type	17-9B Type BNC female

Standard specs

Altitude ft	55000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	70
Vibration	BS3G100, Part 2, Section 3.3.1,
Lightning	DO-160C, Section 23, Cat X.
Standards	DO-160

Electrical specs

Minimum Frequency	74.99
Maximum Frequency	75.01
Impedence	50
Return Loss VSWR	3.0:1 max.
Polarization	Horizontal

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Marker Antenna - 17-11

Standard specs

Minimum Frequency	74.99
Maximum Frequency	75.01
Impedence	50
Return Loss VSWR	3.0:1 max
Gain	<16dB below dipole
Polarization	Horizontal
Radiation Pattern Azimuth	Main lobe below aircraft

Mechinical specs

Full Dimensions LxWxH mm	306 x 67 x 306
Mass kg	0.4
Connector Type	C Female

Electrical specs

Altitude ft	50000
Continuous Operating Temperature Min - C	65
Continuous Operating Temperature Max C	90
Vibration	BS 3G100. Pt. 2. Sect.3.3.1 Region A Cat. 4
Standards	DO-160

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Marker Beacon Blade Antenna - 17-10

Standard specs

Minimum Frequency	74.8
Maximum Frequency	75.2
Impedence	50
Return Loss VSWR	Mid Band <2:1;
Gain	>-10 dBi
Polarization	Horizontal
Radiation Pattern Azimuth	Main lobe below aircraft

Mechinical specs

Full Dimensions LxWxH mm	382 x 49 x 34
Mass kg	0.25
Connector Type	Numerous

Electrical specs

Altitude ft	35000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	70
Vibration	RTCA DO-160C, Sect 8, Cat L
Standards	DO-160

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MLS Stub Antenna - 10-171

Mechinical specs

Full Dimensions LxWxH mm	100 x 44 x 22
Mass kg	0.05
Connector Type	TNC Female

Electrical specs

Minimum Frequency	5000
Maximum Frequency	5100
Impedence	50
Return Loss VSWR	1.5:1
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Standard specs

Altitude ft	70000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	85
Vibration	RTCA DO-160B, Sect 8, modified
Standards	DO-160

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VOR/ILS Antenna - 21-14L

Electrical specs

Minimum Frequency	108
Maximum Frequency	118
Impedence	50
Return Loss VSWR	<5:1
Polarization	Horizontal
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	300 x 27 x 150
Mass kg	0.4
Connector Type	BNC

Standard specs

Altitude ft	2500
Continuous Operating Temperature Min - C	4
Continuous Operating Temperature Max C	5
Vibration	RTCA DO-160C, Sect 8, Cat
Standards	DO-16

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VOR/LOC/GS Loop Antenna - 17-48

Electrical specs

Minimum Frequency	108
Maximum Frequency	336
Impedence	50
Return Loss VSWR	<5.0:1
Polarization	Horizontal
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	Directional

Mechinical specs

Full Dimensions LxWxH mm	432 x 78 x 221
Mass kg	0.39
Connector Type	TNC Female

Standard specs

Altitude ft	20000
Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	70
Vibration	RTCA DO-160C, Para 8.0, Cat Y
Standards	RTCA DO-160, Class X, B2

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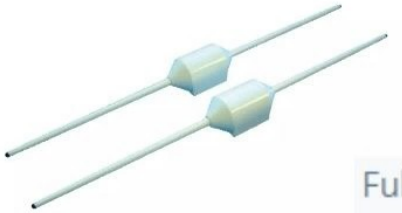
ELT Dipole Antenna - 18-44A



Electrical specs

Minimum Frequency	121
Maximum Frequency	243
Impedence	50
Return Loss VSWR	≤ 5.0:1
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	Cosinusoidal
Peak Power Watts	Receive only
Average Power Watts	Receive only

Mechinical specs

Full Dimensions LxWxH mm	560 x 45 x 52
Mass kg	0.3
Connector Type	BNC Type Female

Standard specs

Altitude ft	See datasheet
Continuous Operating Temperature Min - C	See datasheet
Continuous Operating Temperature Max C	See datasheet
Vibration	RRTCA DO -160C, Section 8, Category Y
Standards	DO-160C

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Tri-Band ELT Whip Antenna - 21-41

Electrical specs

Minimum Frequency	121.5
Maximum Frequency	406
Impedence	50
Return Loss VSWR	121.5 ±1.8: ≤2.5:1;
Gain	>2 dBi at cardinal frequencies
Polarization	Vertical
Radiation Pattern Azimuth	Omnidirectional

Mechinical specs

Full Dimensions LxWxH mm	434 x 23.4 x 23.4
Height Above Base Plate mm	434
Mass kg	0.14
Connector Type	BNC Type Female

Standard specs

Altitude ft	35000
Continuous Operating Temperature Min - C	55
Continuous Operating Temperature Max C	95
Vibration	DO-160G, Section 8, Cat U2, Curves F&F1
Standards	DO-160

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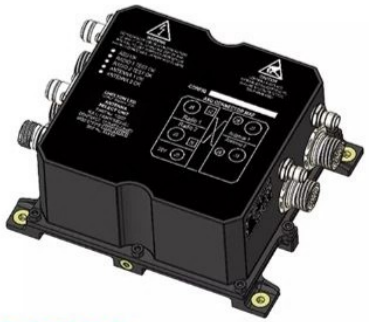
Antenna Selection Unit for Tuneable Antennas - 7-8001



Electrical specs

Minimum Frequency	30
Maximum Frequency	500
Impedence	50
Return Loss VSWR	<1.33:1 30-400MHz
Gain	30-200MHz > -1.2
Peak Power Watts	23
Average Power Watts	23

Mechinical specs

Full Dimensions LxWxH mm	160 x 201 x 85
Mass kg	2.15
Connector Type	N Female

Standard specs

Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810G Method 514.7 Procedure I Cat 12
Lightning	RTCA/DO160G section 22 cat A2J2L2

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935 Series Tactical DF Antenna

Electrical specs

Minimum Frequency	30
Maximum Frequency	470

Standard specs

Altitude ft	25000
Vibration	EUROCAE ED-14C/RTCA DO-160C Section 8 Cat L Fixed Wing Cat Y Helicopter

Mechinical specs

Full Dimensions LxWxH mm	286 x 286 x 90
Mass kg	3.8
Connector Type	MS3114-16-26P, GB711 5009-1, GB711 5009-2

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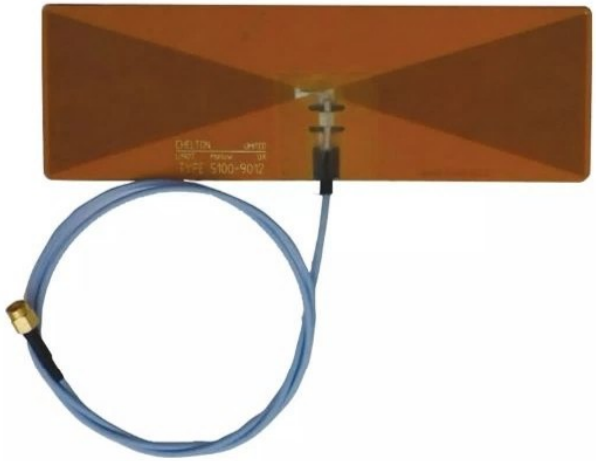
Covert Dipole Antenna - 5100-9012



Electrical specs

Minimum Frequency	350
Maximum Frequency	450
Impedence	50
Return Loss VSWR	≤ 3:1
Gain	See datasheet
Polarization	Horizontal | Vertical
Peak Power Watts	2

Mechinical specs

Full Dimensions LxWxH mm	60 x 180 x 6
Mass kg	0.025
Connector Type	SMA Male

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Low Profile UHF SatCOM Antenna - 5000-9007

Electrical specs

Minimum Frequency	240
Maximum Frequency	320
Impedence	50
Return Loss VSWR	< 2.0:1
Gain	> 0 dBiC with maximum at zenith
Polarization	RHCP
Radiation Pattern Azimuth	omnidirectional
Peak Power Watts	25
Average Power Watts	25

Mechinical specs

Full Dimensions LxWxH mm	521 x 521 x 55
Height Above Base Plate mm	55
Mass kg	3.5
Connector Type	Type N Female

Standard specs

Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	55

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HF NVIS Antenna System - 3028-900

Electrical specs

Minimum Frequency	2.5
Maximum Frequency	30
Return Loss VSWR	Dependant on tuner characteristics
Polarization	Horizontal
Radiation Pattern Azimuth	Omnidirectional
Radiation Pattern Elevation	Vear Vertical Incidence
Peak Power Watts	1000
Average Power Watts	1000

Mechinical specs

Full Dimensions LxWxH mm	Deployed: 26000 x 4600
Mass kg	5.5
Connector Type	Special adaptor to 3/8 -16 imperial thread

Standard specs

Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	55

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Medium Profile TacSAT Antenna (UFO and MUOS) - 5000-9008

Electrical specs

Minimum Frequency	244
Maximum Frequency	380
Impedence	50
Return Loss VSWR	< 2.0:1
Gain	+3 dBiC at zenith (typical)
Polarization	RHCP
Radiation Pattern Azimuth	Orthogonal

Mechinical specs

Full Dimensions LxWxH mm	210 x 272 x 272
Mass kg	2.8
Connector Type	Type N Female

Standard specs

Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810F
Standards	MIL-STD-810F

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TacSAT Antenna (UFO and MUOS) - 5000-9010

Electrical specs

Minimum Frequency	
Maximum Frequency	380
Impedence	50
Return Loss VSWR	< 2.0:1
Gain	≤ +4 dBiC at zenith (typical +6 dBiC)
Polarization	RHCP
Radiation Pattern Azimuth	Orthogonal
Peak Power Watts	200
Average Power Watts	200

Mechinical specs

Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810F
Standards	MIL-STD-810F

Standard specs

Full Dimensions LxWxH mm	345 x 345 x 260
Height Above Base Plate mm	260
Mass kg	3
Connector Type	Type N Female

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UFO and MUOS Satcom Antenna - GD2100

Electrical specs

Minimum Frequency	292
Maximum Frequency	380
Impedence	50
Return Loss VSWR	≤ 2:1 over the entire operational frequency bandwidth
Gain	90° Zenith:
Polarization	RHCP
Radiation Pattern Azimuth	omnidirectional
Peak Power Watts	200
Average Power Watts	200

Mechinical specs

Full Dimensions LxWxH mm	330 x 330 x 404
Height Above Base Plate mm	404
Mass kg	5
Connector Type	N Type Bulkhead Female

Standard specs

Continuous Operating Temperature Min - C	51
Continuous Operating Temperature Max C	70
Vibration	See datasheet
Standards	MIL-STD-810G

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UHF Satcom Antenna - 19-429

Electrical specs

Minimum Frequency	225
Maximum Frequency	400
Impedence	50
Return Loss VSWR	Low angle: 2.7:1 max
Gain	Low Angle: Average within 2 dB of a quarterwave
Polarization	Vertical||RHCP

Mechinical specs

Full Dimensions LxWxH mm	344 x 344 x 270
Mass kg	1.02
Connector Type	Low Angle: Type 'TNC' Female

Standard specs

Altitude ft	25000
Continuous Operating Temperature Min - C	54
Continuous Operating Temperature Max C	71
Vibration	MIL-STD-810E, 514.4, Proc I, Cat 6.
Standards	MIL-STD-810E

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Band 1 Radio Relay Antenna - 1607-900

Electrical specs

Minimum Frequency	225
Maximum Frequency	400
Impedence	50
Return Loss VSWR	< 2.0:1
Gain	9.2 dBi (nominal)
Polarization	Vertical||Horizontal
Peak Power Watts	50
Average Power Watts	50

Mechinical specs

Full Dimensions LxWxH mm	Deployed: 823 x 1452 x 577
Mass kg	8
Connector Type	Spinner 4-11 Socket

Standard specs

Continuous Operating Temperature Min - C	40
Continuous Operating Temperature Max C	85
Vibration	Restrained cargo. MIL-STD-810F, Method 514.5, Procedure I, Fig. 514.5C-2 as 3 axis duration 6 hours/axis
Standards	MIL-STD-810F

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