



Electronics Division Manufacturing Products



Comint Systems and Solutions Pvt Ltd (CSSPL) designs, develops and manufactures high end RF & Microwave Components and Subsystems for strategic applications. We offer wide range of high-performance commercial off the shelf RF & Microwave products and our solution continue to meet the growing demand of diverse markets in the area of Defence and Aerospace. We are continually adding products to our portfolio and our solutions are ever expanding.

Our RF test facility supports present and future design, development, test & repair services. Our test facility is equipped with Vector network Analyzer (VNA), Signal Generator & Signal Analyzer up to 26.5GHz to characterize the performance of Microwave /RF systems and Sub-systems. We also offer test integration services.

Comint Systems and Solutions Pvt Ltd Off-the Shelf products include S-Band Helical Antennas, Monopole Antenna, Cross Yagi-Uda Antennas, Whip Antennas, 4G Antenna, VHF/UHF/S-Band LNA, 2-4 Watt Power Amplifiers, Power Divider /Combiner, SP2T, SP4T-RF-Switch, Power Distribution Unit, Cavity Duplexer, Cavity Bandpass Filter, Uni-Directional RF Attenuator, Directional Coupler, Power Level Attenuators, Wave Guides, RF Module 30-512MHz , Up Down Converters , Data Communication Radio , High Data Rate Transceiver 433MHz , L Band Digitally Tunable Filter , Antenna Front Ends , HF High Power Solid state Switch , V/UHF RF system ,RF Over Fiber Optic Links upto 18 GHz , Variable Gain LNA , RADIO MODEM etc..

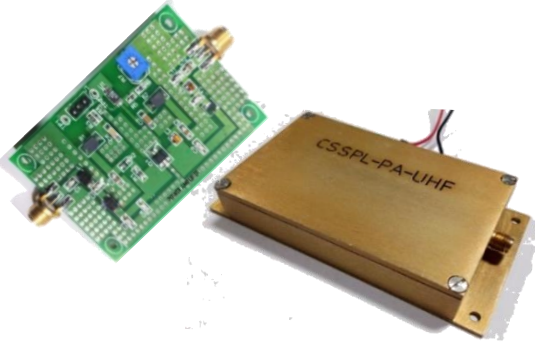
Comint Systems and Solutions Pvt. Ltd.

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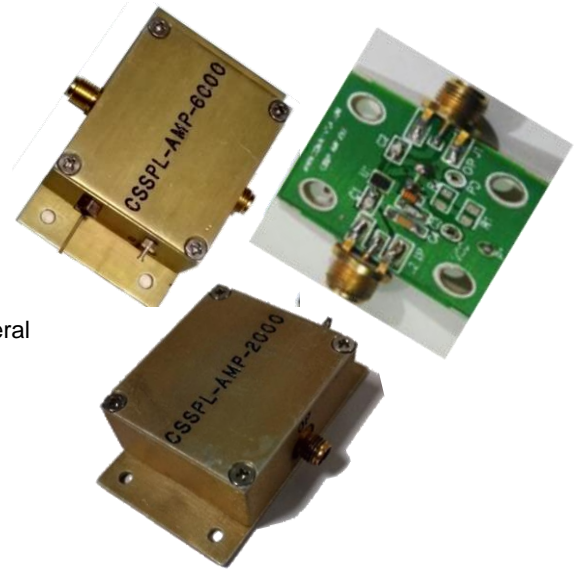
POWER AMPLIFIER



Frequency	:	380-520 MHz
Gain	:	18 dB
Maximum Output Power	:	4Watts
Power Supply	:	+9 to 24Vdc / 200mA
Efficiency	:	> 60%
Mechanical Dimension	:	Approx.(80mm(L)X45mm(W)x20mm(H))

UHF / VHF S BAND LOW NOISE AMPLIFIER

Frequency Range	:	100-2000 MHz/700-6000 MHz
Gain	:	19.5dB±1dB/20 dB ±1 dB
NF	:	0.5dB typ (0.7 dB max)
Output P1 dB	:	+20 dBm
Output IP3	:	+32 dBm Min
Power supply	:	3.3 / 5 Vdc @ 50 / 80 mA
Application	:	Repeaters, TDD and FDD systems/General Purpose Wireless, Mobile Infrastructure
Mechanical Dimension	:	Approx.(42mm(L)x37mm(W)x16mm(H))
Operating Temp	:	-60 to 150°C
Storage Temperature	:	-65 to +150°C



POWER DISTRIBUTION UNIT



PDU is used to supply power to on-board subsystems. It contains latched relay which is controlled by Control Unit.



Input Voltage	:	22V
Current	:	10A
Type	:	4PDT
Latch Relay	:	(Make: Deusche - ELS410142A)
Mechanical Chassis	:	Cover: Al Alloy HE30, Base: Al Alloy HE30
Application	:	Power Distribution Unit

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HIGH POWER CAVITY DUPLEXER



Frequency	:	Tx: 439.5 – 459.5 MHz Rx: 2215 - 2225 MHz
Insertion Loss	:	Tx: 0.5dB Rx: 0.5dB
Power Handle	:	50W
Isolation between Ports	:	60dB
Polarization	:	Linear
Pass Band Ripple	:	0.4dB
Return Loss	:	18dB
Connector	:	TX/RX Port : SMA(F), Antenna Port : N(F)
Operation Temperature	:	-25°C to +70°C
Storage Temperature	:	-40°C to +85°C
Mechanical Dimension	:	Approx.(58mm(H)X150mm(D)x103mm(L))

Note: We provide customized Cavity Duplexer as per customer requirements.

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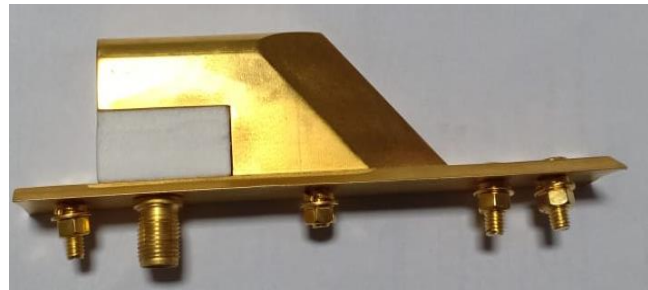
S BAND HELICAL ANTENNA



Frequency Band	:	2.2 - 2.4 GHz
Band Width	:	$F_0 \pm 20$ MHz ($F_0=2250$ MHz)
Impedance	:	50 Ω (Nominal)
VSWR	:	$\leq 2:1$ Max (1.5:1 Typ)
Power handling	:	50 Watt CW
Gain	:	14dBic
RF Connector	:	N-Jack (Gold Plated Finish)
Polarization	:	Right Hand Circular
Reflector	:	Yes
Reflector diameter	:	100mm
Beam width	:	36 to 40 Deg

TELEMETRY ANTENNA

Frequency	:	2.2 to 2.3 GHz
VSWR	:	$\leq 2:1$
Type	:	Top loaded Monopole
Connectors	:	TNC(M)
Polarization	:	Linear
Operating Temperature	:	-30 degree Celsius to +55 degree
Storage Temperature	:	-40 degree Celsius to +70 degree



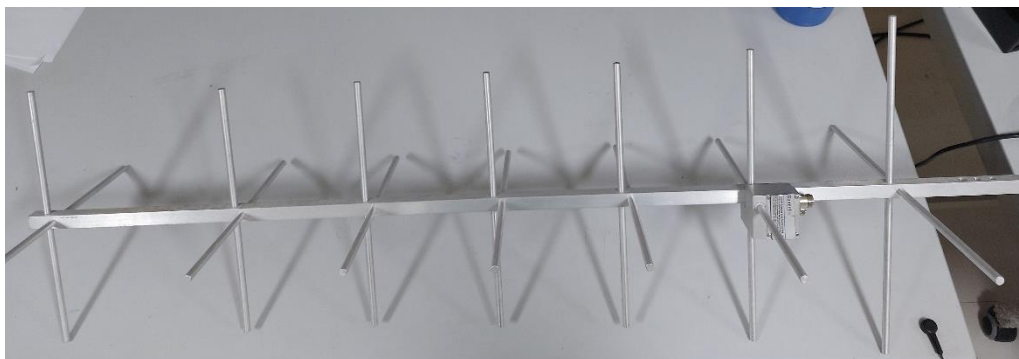
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CROSS YAGI-UDA ANTENNA



Cross Yagi-Uda Antennas manufactured for weather and rain gauge systems. This high-gain, robust, light weight antenna provides optimum performance for all fixed – location, satellite Data Collection Platforms(DCP's). It consists of seven-elements Yagi antenna, mounted on a common aluminium boom. The antenna's screw-in elements facilitate shipping, storage and field installation. Cross Yagi Antennas are a type of directional antenna that consists of a rod pointed in the direction of transmission/reception.

Frequency	:	401.8Mhz (Nominal)
Gain	:	11.0 dBi
VSWR	:	1.5:0 (Maximum)
Input Impedance	:	50 Ohms
Connector	:	N Type Female
Dimensions	:	Boom Length 1250mm Element Length 180mm

WHIP ANTENNA

The whip antenna is structure compact and convenient for easy installation. It is normally used for low frequency electromagnetic waves transmission, GSM/ EGSM/ GPS and data transmission.

Frequency	:	900/1800MHz
Gain	:	5.5 dBi to 6.5 dBi
VSWR	:	< 1.5 : 1
Polarisation	:	Vertical
Cable	:	RG 58 or RG 174
Terminal	:	SMA (Male)
Temperature Range	:	-20°C to 55°C
Application	:	GSM/GPS
Impedance	:	50 Ohms
Housing	:	PVC
Humidity	:	95% (Non-condensing)



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4 G ANTENNA



Frequency Range	:	680-960 MHz/1710-2170MHz/2500-2700MHz
V.S.W.R	:	1:2.0 (2 Max)
Gain	:	3 dBi
Polarization	:	Linear
Connector	:	SMA (M) Straight
Cable	:	RG 316 / RG 174 – 6 Mtrs
Input Power	:	10W
Operating Temperature	:	-40°C to 85°C
Impedance	:	50 Ohm
Applications	:	Telecommunications Networking, Telematics Control units, Video and surveillance, medical devices , Consumer electronics ,Broadband cellular, transport system Fleet monitoring , GSM Modem

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