



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Smart Technology. Delivered.

GPS/TETRA Band Survivor™ Antenna GPSS380DP26-001



HEAVY DUTY COMMERCIAL ANTENNA MEETS THE COMMUNICATION CHALLENGES OF TRANSPORTATION PROVIDERS WORLDWIDE

The GPSS380DP26-001 TETRA band Survivor™ antenna is a heavy duty commercial vehicular antenna that offers high performance and sensitivity for the accurate location and timing of signals that continuously update the position of a travelling vehicle. It operates in the 380 to 430 MHz frequency band with 2.8 dBi (radio) gain, and a 26 dB right-hand circularly polarized active GPS patch that requires a bias voltage of +3.3 to +5V DC.

The antenna has a rugged molded housing and a 5/8" diameter mounting stud allows for quick and easy installation on a vehicle. The antenna comes standard with RG58 cable w/ TNC connector (radio) and RG174 w/ SMA Reverse Polarity (GPS), but other connectors may be available upon request.

FEATURES

- Frequency range: 380 to 430 MHz
- Avg. VSWR: <2:1
- Gain: 2.8 dBi (radio), 26 dB (GPS)
- Power: 50W (max, PTT = 15 minutes)
- Mounting information: 5/8" (16 mm) hole
- Termination: UHF - RG58A/U w/ FME plug (male), GPS - RG174 w/ FME socket (female)

BENEFITS

- Highly durable molded housing design survives the harshest of environments and applications
- 26 dB active GPS patch antenna which reacquires lost signal faster
- 5/8" diameter durable mounting stud attaches quickly and easily to roof, trunk, cab, or hood

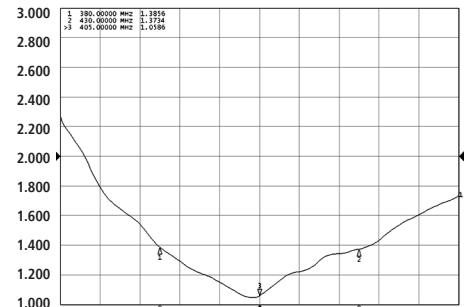
MARKETS OR APPLICATIONS

- General voice/data communications
- TETRA public safety
- Transportation agencies, utilities, government, and military

SPECIFICATIONS

ELECTRICAL	
Peak Gain	2.8 dBi / 26 dB
MECHANICAL	
Antenna Height	7.17" (182 mm)
Weight (Mass)	1 lbs (450 g)
Diameter	3" (76.2 mm)
Temperature	-55°C to +85°C

VSWR DIAGRAM



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GPS/TETRA Band Survivor™ Antenna

GPSS380DP26-001

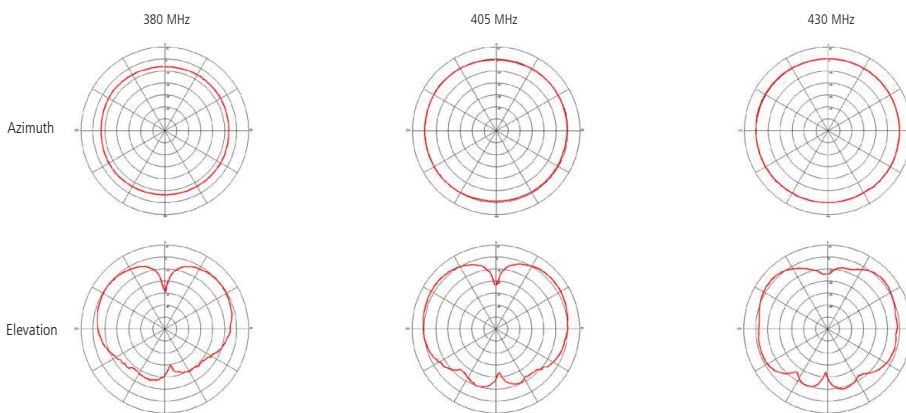
UHF ANTENNA (TX/RX)

PARAMETER	
Frequency Range	380-430 MHz
Pattern	Omnidirectional
Polarization	Vertical
Elevation Beamwidth at Half-Power	120°
Azimuth Beamwidth at Half-Power	360°
Maximum Power	50 Watts PTT for 15 min
Nominal Impedance	50 Ω
VSWR	< 2:1
Termination	FME Plug (male)
Mounting Information	Drill 5/8" (16 mm) Hole & Install
Radome Material	ABS
Ground Plane (min)	1.25 ft ² (381 mm ²)
Cable	Type: RG58A/U Length: 1 ft, exit at bottom

GPS ACTIVE ANTENNA (RX ONLY)

PARAMETER	
Frequency Range	1575.42 MHz ± 1 MHz
Polarization	Right Hand Circularly Polarized (RHCP)
Antenna Gain	3 dBi min (elevation = 90°) -5 dBi min (elevation = 20°)
Azimuth Ratio	4.0 dB max (elevation = 90°) 6.0 dB max (elevation = 10°)
Output Impedance	50 Ω
VSWR	< 1.5:1
Termination	FME Socket (female)
Normal Gain	(26 ± 3) dB
Noise Figure	1.5 dB @25°C
Power Supply	3 to 5 Vdc
Current Consumption	20mA max
Power Handling	1W max
ESD Rating	± 8 KV
Cable	Type: RG174 Length: 1ft, exit at bottom
GPS Attenuation Responses	600 MHz ~ -40 dBc 1000 MHz -30 dBc 1475 MHz -20 dBc 1525 MHz -15 dBc 1625 MHz -15 dBc 1675 MHz -25 dBc

PATTERNS



ANT-DS-GPSS380DP26-001 1216

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