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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

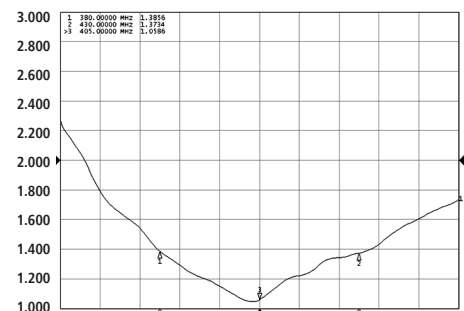
MARKETS OR APPLICATIONS

- 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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GPSS380DP26-001

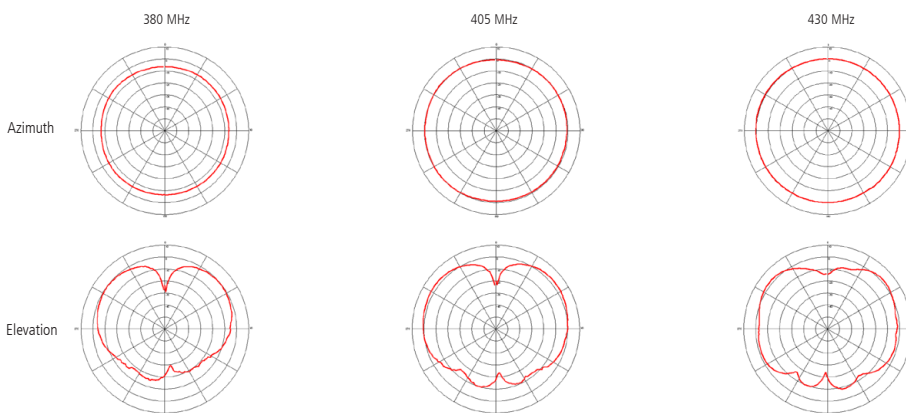
UHF ANTENNA (TX/RX)

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



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