



WIDE BANDWIDTH OMNIDIRECTIONAL ANTENNA 400 MHz to 900 MHz

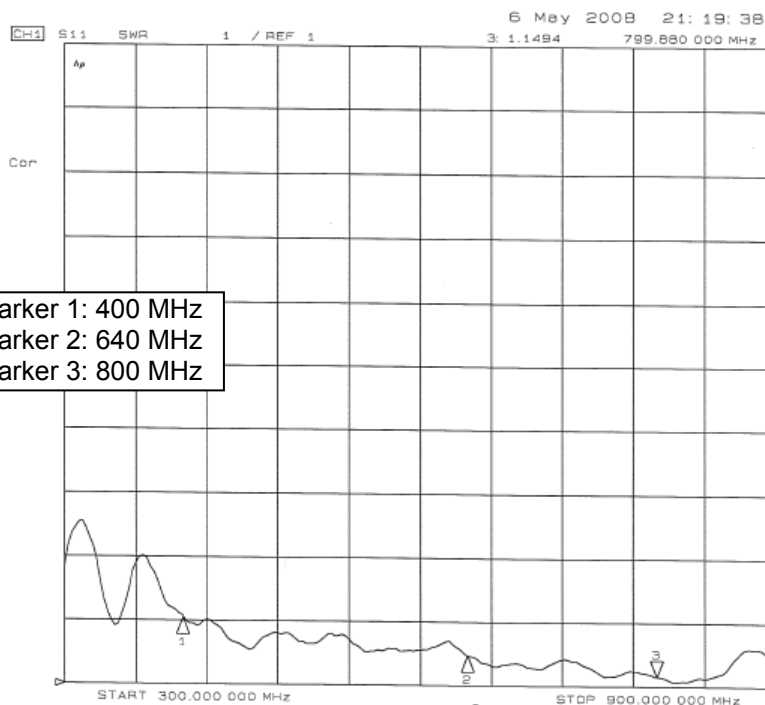
WDA - 488

The **WDA-488** is a single-band collinear antenna array designed to operate from 400 MHz to 900 MHz. The antenna exhibits exceptional VSWR, a flat gain curve and excellent omni-directional patterns. The optimized beam width make this antenna ideal for vehicular mount applications. The antenna is mounted in a sealed dielectric radome for outstanding mechanical stability while providing isolation from environmental hazards. The WDA-488 is mounted to a spring base to also offer the ability to pass impact testing. The WDA-488 also comes equipped with a standard NATO mount base that conforms to CECOM Drawing A3207505.

Height: 70in. / 1780mm
Diameter: 2.5in. / 64mm
Weight: 10 lbs / 4.5 kg

Electrical Specifications

Frequency (MHz) : 400 - 900
VSWR: <2.0:1
VSWR(max): 2.0:1
Gain: 4.5 to 6 dBi
Power: 175+ Watts CW
Input Impedance: 50 Ω
Port: 1
Connector: Type N
Polarization Vertical



Typical VSWR

Marker 1: 400 MHz
Marker 2: 640 MHz
Marker 3: 800 MHz



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Mechanical Specifications

| Test | Specification | Details |
|--|------------------------------------|-----------------------|
| Low Pressure - Explosive Decompression | MIL-STD-810F | |
| Vibration - Wheeled/Tracked Transport | | |
| Shock - Operational/Transport | | |
| Shock - Service & Handling/Crash Hazard | | |
| Low/High Temperature - Operational | | -55°C to +71°C |
| Low/High Temperature - Storage | | -40°C to +65°C |
| Low Pressure - Operational | | 15,000 ft |
| Low Pressure - Storage | | 45,000 ft |
| High Voltage Protection | | 30,000 V |
| Explosive Atmosphere | | |
| Immersion & Fording | | 1m @ 1h |
| Solar Radiation | | 1120 W/m ² |
| Rain & Wind | | |
| Sand & Dust | | |
| Humidity | | 95% |
| Salt Fog | | 5% Salt Solution |
| Fungus | | 30 days |
| Impact | 25 hits @ 25 mph with 4in oak beam | |
| Spring Flexure | 40,000 flexures | |
| Near Strike Lightning (NSL) | RTCA DO-160E | Section 22 |
| Electrostatic Discharge (ESD) | | Section 25 |
| High Altitude Electromagnetic Pulse (HEMP) | MIL-STD-2169B | |

Gain: WDA-488

