

## WDA-3018 Tri Band Omni-directional Communications Antenna

The WDA – 3018 Tri Band Antenna is a multi-band antenna designed for ground-to-air, point-to-point, and mobile communications. The WDA-3018 was designed to minimize the number of antennas integrated onto vehicles. The three individual ports enable simultaneous use of the SINCGARS, UHF, and L-Band channels. Filters are used to achieve high port to port isolation.

The sealed radome offers both mechanical stability and environmental protection for the antenna when it is deployed. The antenna is fastened onto a heavy duty spring mount to minimize high velocity impacts. Lightweight materials enhance the antenna's flexibility and durability.

### ELECTRICAL SPECIFICATIONS:

Frequency (Band 1)	30 - 88 MHz
Frequency (Band 2)	225 – 450 MHz
Frequency (Band 3)	1200 – 2000 MHz
VSWR (Band 1)	< 3.0 : 1
VSWR (Band 2)	< 3.0 : 1
VSWR (Band 3)	< 2.0 : 1 typical
Gain (Band 1)	-10 - -5 dBmp
Gain (Band 2)	1.5 – 4 dBi
Gain (Band 3)	2.5 – 5 dBi
Power (per port)	100+ Watts
Input Impedance	50 Ohms
Port-Port Isolation	>50dB
Ports	J1, J2, J3
Connectors	TNC

### MECHANICAL SPECIFICATIONS:

Weight (vehicular)	12 lbs (5.4 kg)
Height	85 in (2.15 m)
Diameter (upper)	1.5 in. (38 mm)
Diameter (lower)	1.75 in (44.5 mm)
Mount (vehicular)	NATO 4-hole
Finish	CARC Green, Tan, Black
Temperature	-30° - 50° C
Spring	>40,000 flexures at 60° 4,000 flexures at 90°



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