

401 / 403 Series

VHF Low Profile Vehicle Antenna

These antennæ are omni directional, and suited for operation on vehicles in harsh environments. Using a quarter wave slot for radiating, they are short and very robust. They are d.c. grounded, and intended for installation on conductive surfaces. The 401 has a painted grey finish. The 403 is covered by a radome of rugged polypropylene, and is fed via a coaxial cable harness for duplex operation.

electrical and mechanical specifications

Frequency range	401 158 - 162 MHz 403 158-159 / 166-168 MHz
Input Impedance	50 Ohms
Bandwidth	± 2.5%
VSWR	<2.0:1
Maximum Input Power	401 500 Watts 403 100 Watts
Polarisation	Vertical
Forward Gain	0 dBd
3 dB Beamwidth	E Plane 90°
Connection	401 N socket 403 RG400 tail c/w UHF plug
Element	Diecast Aluminium Alloy LM25
Radome (403)	Grey Polypropylene
Finish (401)	Two Part Grey Lacquer
Fasteners	Stainless Steel Grade A2-70
Insulator	Nylon
Lightning protection	Direct Grounded
Weight	401 3 kg 403 2.4 kg
Dimensions (mm)	401 550 x 145 x 70 403 515 x 130 x 115
Typical Wind loading @ 45m/s	401 38 N 403 77 N



E Plane

H Plane

Free Space Radiation Patterns

(ASCII Files available upon request)

