

Data Sheet

System IAM:

3.5m 'SQUAD'

30-300MHz



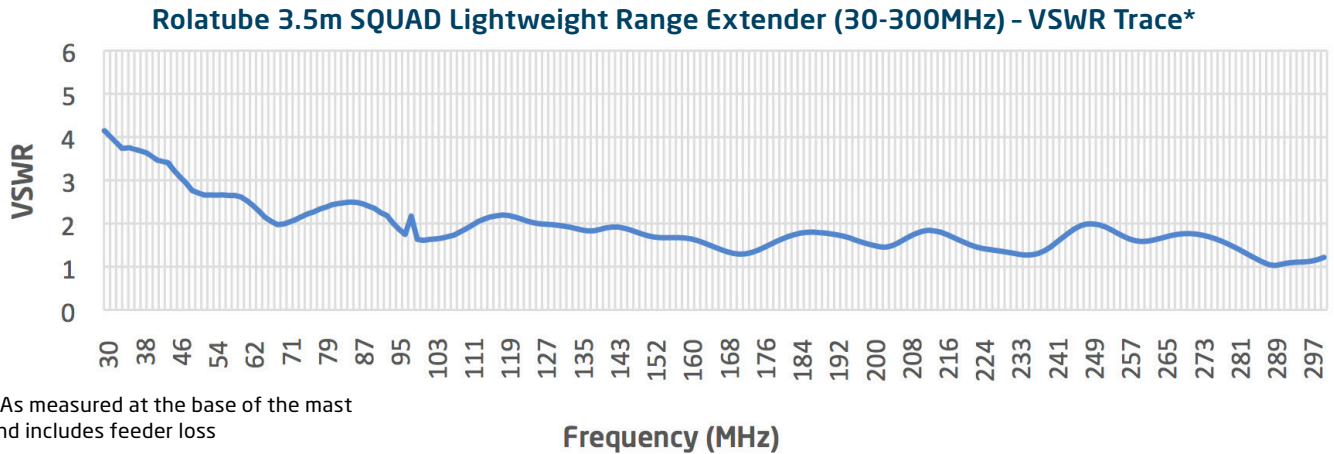
| | | |
|---|--|---|
| System Name: | System IAM 3.5m SQUAD 30-300MHz | |
| System Part Number: | Multicam | 952-203500-1-1 |
| | Black | 952-203500-3-1 |
| | Multicam Alpine* | 952-203500-6-1 |
| | Multicam Arid* | 952-203500-8-1 |
| System Contents: | 1 x 3.5m 51mm (11.5' 2") Integrated Antenna Mast 1 x Strain Relief Cable 1 x Top Cap 1 x End Cap 1 x Set of 3 Guys | 6 x Red Rock Pegs 1 x TNC to N-Type (m) Adaptor 1 x TNC to BNC (m) Adaptor 1 x Black Bag |
| Deployed Height: | 3.5m (11.5') | |
| Deployed Tube ID: | 51mm (2") | |
| Packed System Volume Dimensions W x H x D: | 170mm x 250mm x 180mm (6.6" x 9.8" x 7") | |
| System Weight: | 2.5kg (5.5lb)** | |
| Frequency Range: | 30-300MHz | |
| Radiation Pattern: | Omnidirectional | |
| Antenna Format: | Vertically Polarised Dipole | |
| Nominal Gain: | 2.2 dBi | |
| VSWR: | 30 – 50MHz <4:1 50 – 300MHz <3:1 | |
| Power Rating: | 25W using standard duty cycles and voice over radio transmit protocols ¹ | |
| Impedance: | 50ohms nominal | |
| RF Cable: | Permanently fixed 2.2m length (7.2') extending from base of mast (via strain relief clamp) | |
| Connection Type: | TNC (m) | |
| Construct and Finish: | Mast body: PP-glass fibre composite with integral dipole antenna. External finish: Nylon woven fabric (Cordura 500 Denier). Colour: Black or MTP. | |
| Environmental: | Compliant with relevant sections of MIL-STD-810G | |

*MOQ of 5 applies, or 20% surcharge ** Without pegs

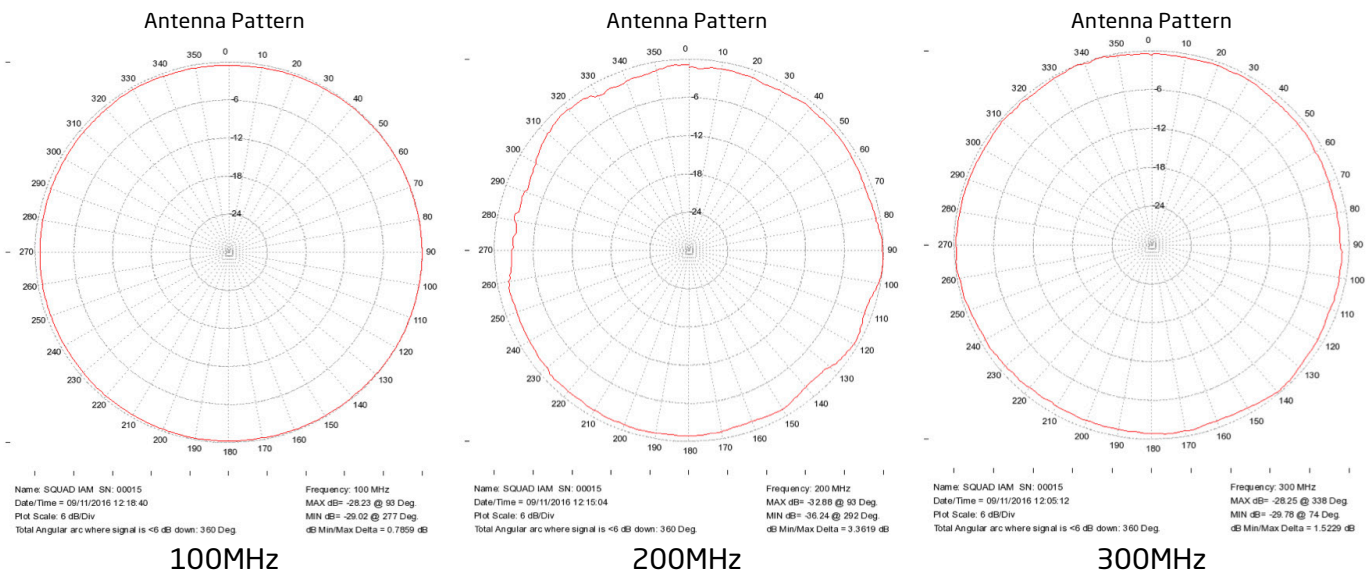
Notes: ¹Stated power rating is based on continuous transmit. Higher powers may be used depending on duty cycle and transmission duration protocols. Please contact your Rolatube representative to discuss your requirements before exceeding 25W.

3.5m SQUAD Lightweight Range Extender (30-300MHz) RF Data

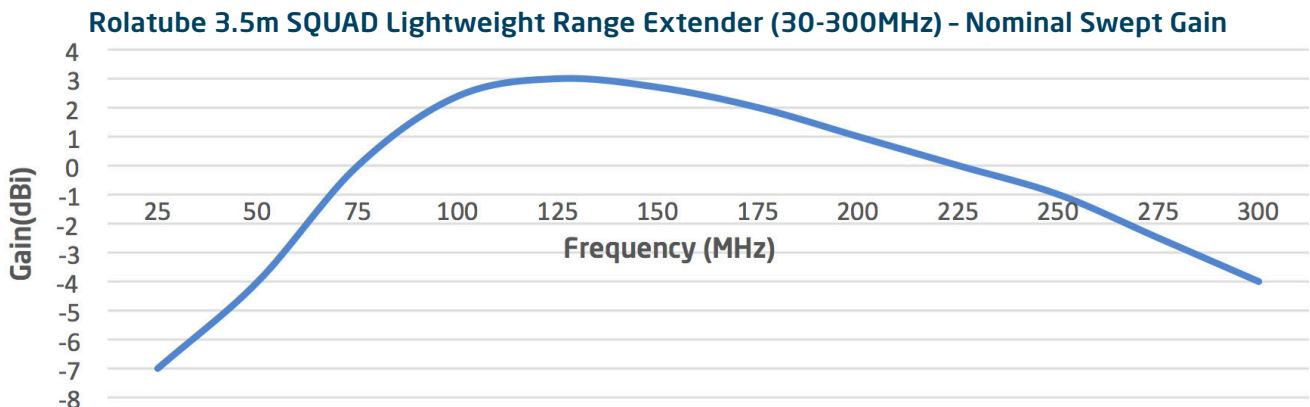
1.0 VSWR



2.0 Polar Plots



3.0 Swept Gain



3.5m 'SQUAD' Integrated Antenna Mast Product Components

| System | Rolatube Part Number | NSN |
|---|----------------------|------------------|
| 3.5m 'SQUAD' Integrated Antenna Mast (30-300MHz) system multicam | 952-203500-1-1 | 5985-99-844-4259 |
| 3.5m 'SQUAD' Integrated Antenna Mast (30-300MHz) system black | 952-203500-3-1 | 5985-99-226-5937 |
| 3.5m 'SQUAD' Integrated Antenna Mast (30-300MHz) system multicam alpine | 952-203500-6-1 | NSN Pending |
| 3.5m 'SQUAD' Integrated Antenna Mast (30-300MHz) system multicam arid | 952-203500-8-1 | NSN Pending |

| Component | Rolatube Part Number | NSN | Qty |
|---|----------------------|------------------|-----|
| 3.5m 51mm (11.5' 2") 'SQUAD' Integrated Antenna Mast (30-300MHz) multicam | 902-203500-1-0 | 5985-99-232-3906 | 1 |
| 3.5m 51mm (11.5' 2") 'SQUAD' Integrated Antenna Mast (30-300MHz) black | 902-203500-3-0 | 5985-99-371-3867 | 1 |
| 3.5m 'SQUAD' Integrated Antenna Mast (30-300MHz) multicam alpine | 902-203500-6-0 | NSN pending | 1 |
| 3.5m 'SQUAD' Integrated Antenna Mast (30-300MHz) multicam arid | 902-203500-8-0 | NSN pending | 1 |
| Strain Relief Cable | 108-000034 | 5975-99-564-1435 | 1 |
| Top Cap | 800-001007 | 5985-99-217-2121 | 1 |
| Base Cap | 800-001004 | 5985-99-219-0841 | 1 |
| Set of 3 x 5.5m (18") Guy Ropes | 207-004006 | 4010-99-155-5292 | 1 |
| Red Rock Peg | 207-002008 | 4030-99-847-5233 | 6 |
| TNC (f) – N-Type (m) Cable Adaptor | 404-000044 | 5940-99-155-8223 | 1 |
| TNCF (f) – BNC (m) Cable Adaptor | 404-000043 | 5940-99-732-5484 | 1 |
| Bag | 502-003062 | 8105-99-753-0838 | 1 |

| Optional Accessory | Rolatube Part Number | NSN |
|-------------------------------|----------------------|------------------|
| 3.5m IAM Mount for System 75 | 800-006200 | 5985-99-371-3902 |
| 3.5m IAM Mount for System 100 | 800-006210 | 5985-99-680-0511 |

Disclaimer: The technical and operational information contained within this document relates only to the specific product referred to in this document and may not be applicable when such product is not used in accordance with such operational instructions. The Company reserves the right to change technical and operational information from time to time. A copy of the latest version is available on the Company's website: www.rolatube.com

A copy of the Company's terms and conditions of business are also included on the Company's website.

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