

T.G.M. Communications

MQ-36SR Three Element *Increased, F/B, F/S & Forward Gain*

Five Band Hybrid Quad Antenna 10,12,15,17,20 Meters

Can be used on six meters with an antenna tuner.



Mechanical Specifications		Electrical Specifications
Element length-	11 foot 9 in.	Operating Bands- 6,10,12,15,17,20 Meters
Boom Length-	10 foot 3 in	Forward Gain (+/-0.5dB)-6M-7.0db., 10M-7.0 db.,
Turning Radius-	8 feet 3 in.	12M-7.0db, 15M-7.0 db.,17M-6.4db, 20M-6.0 db.
Wind survival-	75 MPH	(Reference being a full size dipole at 25')
Weight-	26 lbs.	Front to Back Ratio-15 to 20 db.
Mast (not inc'l)-	up to 2 1/8 in.	Front to side Ratio- 25 db.
Wind Loading-	3.1 sq. feet	Power Rating- 1200 Watts P.E.P.
Overall Quad		Input Impedance-Single 50 OHM Feedline
Reflector Height-	48 in.	Materials- 6061-T6 aluminum, Lexan, G12
Rotor- Medium to Heavy duty Ham		Fiberglass coils, Stainless steel hardware,
		Except large mast U'bolts.

Note: Boom length does not include reflector extension add 26 inches.

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Miniature Three Element Five band Hybrid Quad Antenna

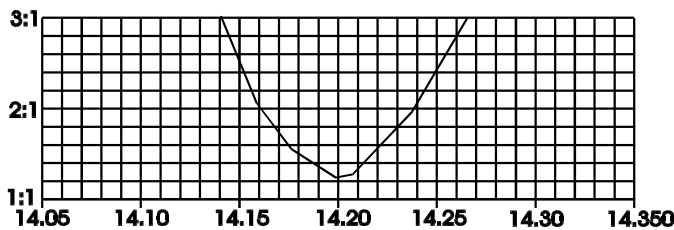
Most antennas are large heavy structures requiring heavy duty structures, rotors and lots of extra muscle during installation and lots of extra dollars before the job is done.

We believe this Hybrid to be the ultimate in a six band three element antenna, with a reflector design which results in a unique super hi-performance radiating system. The loading coils are made of strong low loss fiberglass forms, using aluminium hubs and easily replaced aluminium spokes.

This principle of loading contains no magic whatsoever, by simply reducing the element length by eliminating the least useful portion, the ends, and retain the center which is the primary current or radiating portion, that plus a super Hi-Q Reflector diamond shape for maximum signal capture, and properly phased, puts all your signal out front where it does the most good.

Performance is excellent - low SWR, low radiation angle, broad band, excellent gain and front to back ratio . The Hybrid Quad is a sensible designed, built from high quality materials and mounts with standard TV hardware and rotor. It's small size gathers very little ice and wind which allows you to spend more time on the air, not in the air. Try this Hybrid-Quad, you'll be amazed.

SWR vs FREQUENCY FOR MODEL MQ-36SR



20 METERS



17 METERS



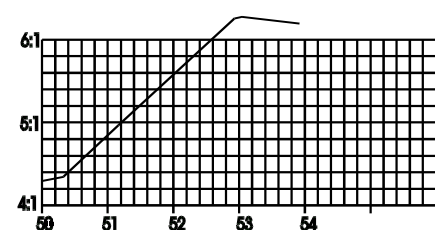
15 METERS



12 METERS



10 METERS



6 METERS

NOTE: Above curves typical -Resonance may be adjusted up or down.