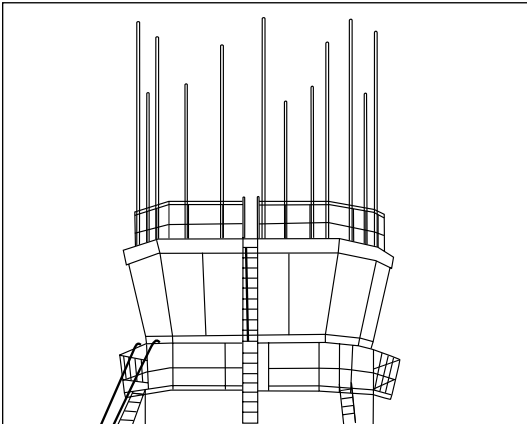


TACO

Muldipol FAA Approved Antennas



Features

- Rugged lightweight construction
- Transportable
- Compact
- Combination of UHF and VHF
- High isolation between antenna elements

Specifications

Environmental

- Built to Military standards
- Rain, salt-fog, sand, dust and fungus to MIL-STD. 810A & B
- Temperature, barometric pressure and humidity to MIL-STD. 210 & 210A

Electrical

- Isolation (min.) 30.0 dB
- Polarization Vertical
- Omni Directional: ± 1.0 Uniformity (azimuth)
- VSWR (max.) 2:1
- Terminals "N" Female
- Terminal Impedance 50 Ohms
- Applied Power 100 W
- Vertical Beam Deviation $\pm 10^\circ$

The MULDIPOL™ Multiple Dipole Collinear Array concept has been specifically developed by TACO for ground-air-ground, air traffic control and associated vehicular and base communications applications.

This omni directional concept employs a unique method of shielding the feed cables to improve radiation pattern characteristics. The MULDIPOL™ has a high degree of isolation between discrete elements within a closely spaced array. The result is a small, rugged, easy to install antenna. The lightweight and compact design minimizes space and lends itself to tactical transportable use in the most hostile environments. A minimum of 30 dB isolation is realized between any two antenna elements in every MULDIPOL™ model.

The low profile of this antenna plus the resulting decrease in the number of antennas required at any tower site also gives a much improved radiation pattern coverage.

Operation

The process employed in the TACO antennas incorporates the patented MULDIPOL™ concept. The utilization of this technique results in a unit which has excellent "broadband" halfwave dipole characteristics over the entire operating frequencies.

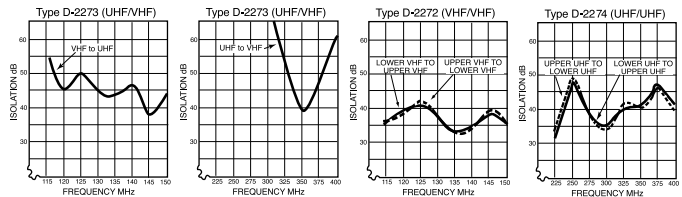
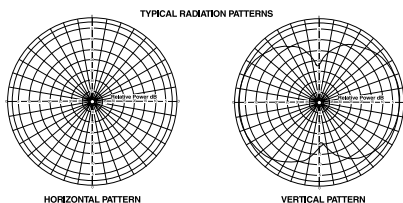
The desired "figure eight" radiation pattern is generally constant throughout the band. Through "broadband" suppression of extraneous currents upon the transmission line, the undesirable "Clover Leaf" pattern is avoided.

By design, the outer conductors of both halves of each dipole are at the same DC ground potential. A ground is provided at the base of each antenna for supplemental grounding capability.

TACO Air Traffic Control FAA Antennas World Wide Use

MODEL	VHF (MHz)			UHF (MHz)			GAIN (dBic)	# OF OUTPUTS	HPBW DEGREE	MOUNTING DIAMETER	LENGTH INCHES	LENGTH CM	WEIGHT LBS	WEIGHT KG	COLOR	WIND LOAD WITH .5 ICE AREA (sq.ft.)
	116-150	118-136	150-174	225-400	400-470	400-500										
D2261A1		XX					4.0	1	40	(3)	140.50	356.87	19.0	8.63	White	2.1
D2262A				XX			4.0	1	40	(3)	68.9	172.70	13.0	5.90	White	1.1
D2272		XX					1.0	2	75	(3)	152.25	386.71	17.5	7.95	White	2.3
D2273		X		X			1.0	2	75	(3)	84.25	214.00	11.2	5.08	White	1.3
D2274				XX			1.0	2	75	(3)	84.25	214.00	10.9	4.95	White	1.3
D2276		X					1.0	1	75	(3)	54.50	138.43	5.2	2.36	White	0.7
D2277				X			1.0	1	75	(3)	32.25	81.91	3.9	1.77	White	0.4

X - Denotes number of active elements (3) = 1.25 or 2.5 inch (3.175 or 6.35 cm) IPS Pipe



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TACO Communications' ongoing policy of continuing development may result in specification changes to its products.