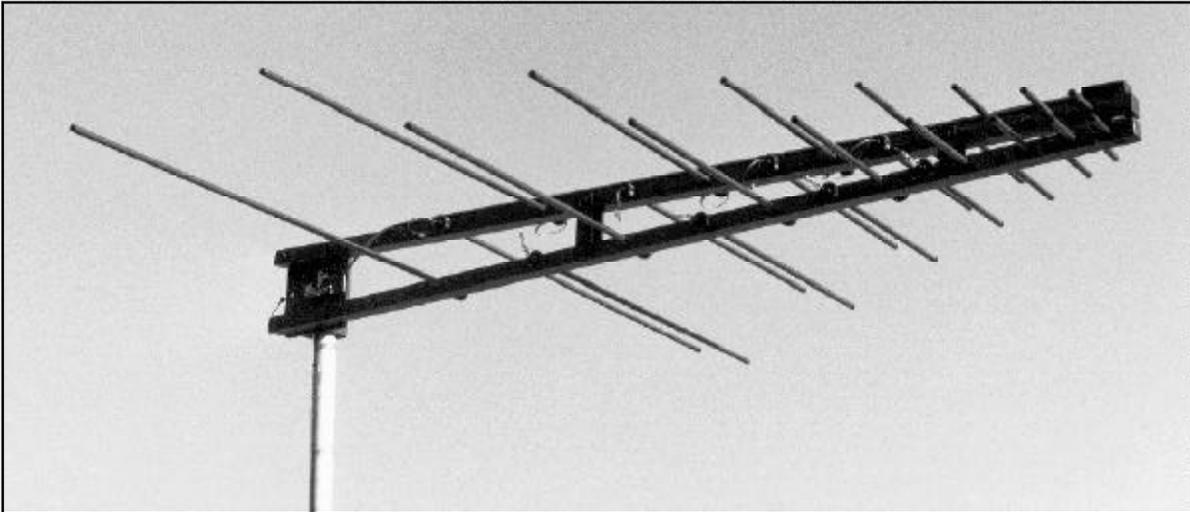


TLP-28/100/225

- TRANSPORTABLE
- VERTICAL OR HORIZONTAL POLARIZATION
- BROADBAND



TLP-28 The TLP-28 tactical log periodic is designed for use in the 28-100 MHz frequency band and is capable of handling 1 kW average. The antenna is suitable for point-to-point communications or for surveillance applications. The antenna is usable for receiving purposes down to 20 MHz. The boom and elements are constructed from corrosion resistant aluminum with stainless steel fittings and fiberglass insulators. The elements and boom are engraved and easily identifiable to facilitate rapid assembly and dismantling. The antenna is supplied in a durable carrying bag containing the two boom sections, radiating elements and the dual polarity mounting adapter. The antenna has a 1-1/2" diameter mounting fastener and interfaces directly with 6.8 meter telescopic pneumatic mast type PM-459 which has a fiberglass top section to minimize pattern distortion when antenna is used in the vertically polarized mode.

TLP-100 The TLP-100 can be used in the vertical or horizontal mode and is companion to the TLP-28 antenna but of smaller proportions. It covers the 100 to 500 MHz frequency range and is usable, for receive purposes, up to 1000 MHz. The antenna uses a single piece boom and each removable element is retained by a cord to prevent loss when the antenna is dismantled. The input connector is type

"N." The antenna is supplied in a durable carrying bag. A 1-1/2" diameter fastener permits mounting to Antenna Products' model MM-798 or PM-477 9-meter telescopic masts.

TLP-225 The TLP-225 is a smaller size version of the TLP-100 antenna and is designed for point-to-point communication links in the 225-400 MHz frequency band. The lightweight and the small packaged dimensions make this antenna suitable for tactical and transportable applications while the wide bandwidth permits use with UHF frequency hopping radios. The elements are secured to the boom by a threaded fastener and are held captive by wire cords to avoid loss when dismantled. The antenna is supplied in a durable carrying bag and will mount to the MM-798 and PM-477 telescoping masts.



| SPECIFICATIONS | TLP 28 | TLP 100 | TLP 225 |
|-------------------|---|--------------------------------------|--------------------------|
| Frequency, MHz | 28-100 | 100-500 Transmit 100-1000 Receive | 225-400 |
| Input Impedance | 50 Ohms unbalanced | 50 Ohms unbalanced | 50 Ohms unbalanced |
| VSWR | 2.4:1 nominal 30-100 MHz 3:1 28-30 MHz | 2.5:1 max | 2:1 |
| Gain | 5 dBi | 7 dBi | 7 dBi |
| E Plane Beamwidth | 70°- 80° | 70°- 100° | 60°- 70° |
| H Plane Beamwidth | 100°- 130° | 100°- 120° | 80°- 90° |
| Polarization | Vertical or Horizontal | Vertical or Horizontal | |
| Power | 1 kW PEP | 400 W PEP | 100 W continuous |
| Wind Loading | 100 mph(87 knots),no ice | 100 mph(87 knots),no ice | 100 mph(87 knots),no ice |
| Size Boom Length | 13-1/2 ft (4.1m) | 4 ft (1.2m) | 3 ft (0.9m) |
| Longest Element | 6-1/4 ft (1.9m) | 29 in (0.7m) | 17 in (0.4m) |
| Weight | 43 Lbs (19.5 kg) | 17-1/2 Lbs (7.9 kg) | 10 Lbs (4.5 kg) |