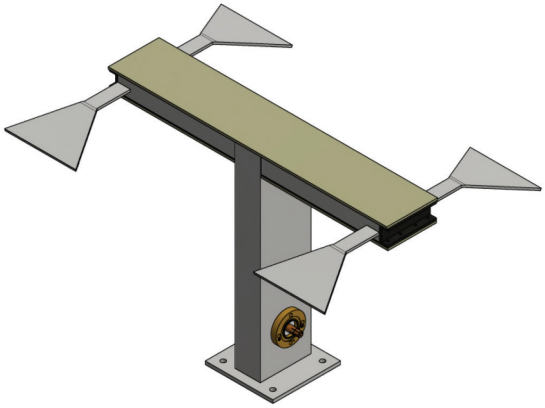
ERI ETV Series VHF Television Panel Antenna

Broadband High Band VHF Antenna Systems

Features

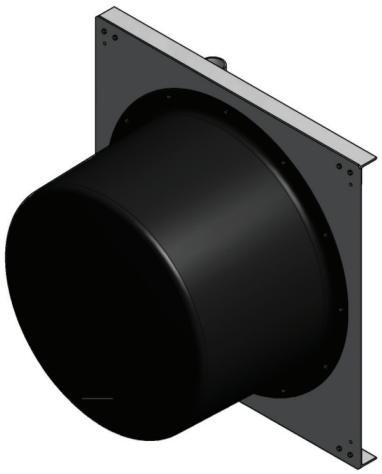
- Horizontal and Circular polarized models available
- Rugged galvanized steel construction
- Radome protected
- Power handling of 5 kW, average power per element
- Supplied as complete systems with power dividers and feed harness



ERI Horizontally Polarized Broadband ETV Series
High Band VHF Television Antenna

The Electronics Research ETV Series high band VHF television antennas include a horizontally polarized high band VHF panel antenna element as well as an element for circularly polarized requirements. As with all ERI antenna systems these panel elements can be designed to mount on existing towers or supplied with integrated top or side mounted spines. Both models are available in configurations for three (3) curtain (for triangular towers) or four (4) curtain (for square towers) arrays. The elements and full arrays can be configured and optimized for a single high band VHF television channel, 174 MHz to 216 MHz, or be optimized to cover the entire channel span from 7 to 13 and handle multiple television signals in a single system. ERI can also provide channel combiners as a part of a complete system.

The horizontally polarized ETV Series antenna elements are constructed from rugged galvanized steel and include UV protected ABS radomes to protect the element feed points from weather and debris. The circularly polarized ETV Series antenna includes a full radome enclosure to protect the element from snow and ice and to reduce wind area, which reduces tower loading. Both models are rated to 5 kilowatts, average power, per element and include a single 1-5/8-inch EIA flanged RF inputs. These panel antenna systems can be designed to mount on existing customer owned towers or supplied with integrated mounting spines that are fabricated by ERI.



ERI Circularly Polarized Broadband ETV Series
High Band VHF Television Antenna

Complete System Capabilities

ERI's ability to design and fabricate structural components and the company's manufactured transmission line products and RF components gives the company unique abilities to provide panel antenna systems as turnkey packages. The company services can also include delivery, off-loading, antenna and transmission line installation, and system acceptance testing. ERI also has a staff of structural engineers that can provide complete tower analysis services and design and manufacture any required tower reinforcement material and the associated installation services.

ERI approaches the opportunity to provide television panel antenna systems as custom applications of its standard manufactured product. Every customer requirement is reviewed individually and a suitable combination of components is assembled and proposed in order to best meet individual needs and application requirements. Contact ERI to have a system configured for your unique and special requirements.

Prior to shipment to the site, each antenna is factory assembled, tuned, and tested. Experienced ERI technicians are available to supervise field assembly and installation.

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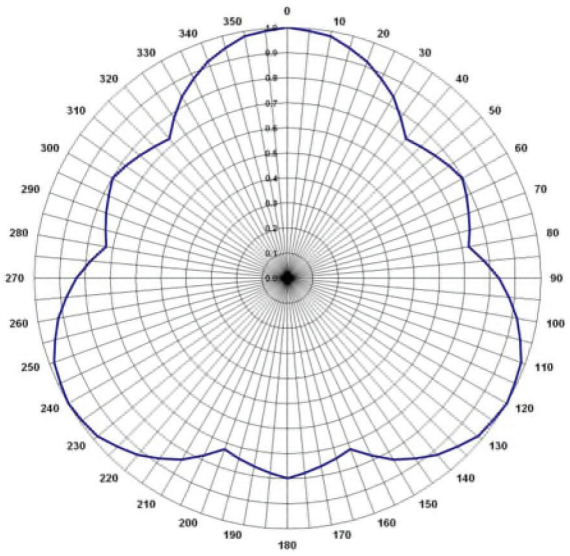
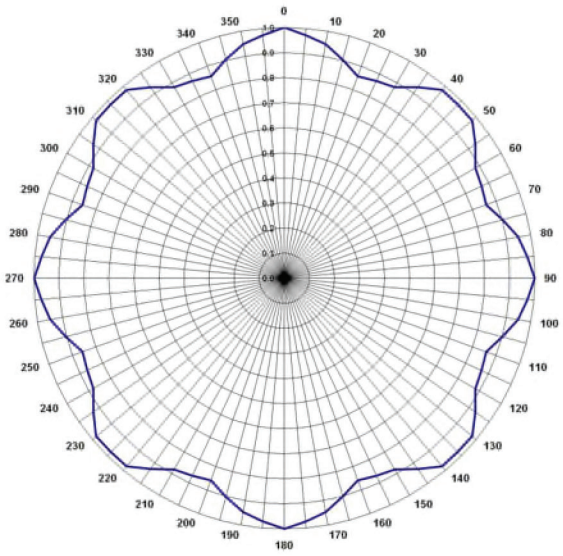
ERI ETV Series VHF Television Panel Antenna

Broadband High Band VHF Antenna Systems

Typical Omnidirectional Azimuth Patterns



Three (3) ETV Series high band VHF panel antenna elements on a triangular tower.



Four (4) ETV Series high band VHF panel antenna elements on a square tower

Omnidirectional patterns are shown other horizontal plane patterns available. Contact ERI for more information.

Product Specifications

Frequency Range:	Any high band VHF television channel (174 MHz to 216 MHz) Systems for either single channel or multiple channel applications available
Input Impedance:	50 Ohms
Power Handling:	5 kW per panel
Polarization:	Horizontal or Circular
Patterns:	Omnidirectional, Wide Cardioid, Peanut (all standard, computer predicted arrays)
Beam Tilt:	Per array design
VSWR:	1.10:1, maximum, upon request 1.12:1, maximum, across 174 MHz to 216 MHz
RF Input:	1-5/8-inch EIA flanged, male
Material:	Aluminum, copper, galvanized steel
Pressurization:	To power dividers only
Feed Harness:	Foam coaxial cable feeds to panels

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