

# UHF slant antenna panels

## TYPES

### TVPA 40/50S

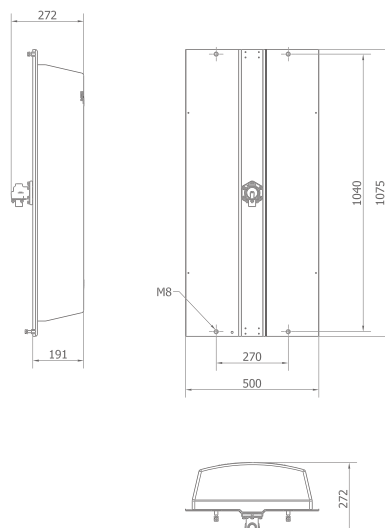
UHF directional broadband antenna panels TVPA 40/50S is designed for slant polarization (20% vertical polarization and 80% horizontal polarization) used mainly for transmitting digital TV systems for mobile and fixed reception. Units can be assembled to provide omni directional, horizontal non-directional or customised radiation patterns.

Protected by a robust polyester radome, these panels can operate in extreme weather conditions. Every panel is factory measured and tested. These panels are used in air-pressurized antenna systems as well in systems designed with foam cables.

Antenna panels are suitable for high power antenna systems, achieved by stacking in tiers. In such cases split system is used, which allows feeding of the antenna system with half power or even full transmitter power when only half antenna system is operating.



TVPA 40/50S



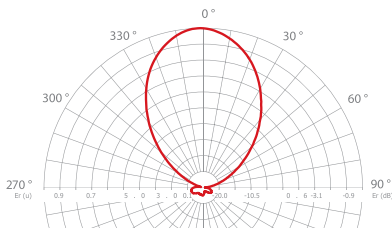
## Specifications

<b>TVPA 40/50S</b>	
Input connector	DIN 7/16 female or EIA 7/8" or EIA 1 5/8"
Impedance	50 Ω
VSWR	≤ 1,12
Frequency range	470 – 862 MHz
Polarization	20% vertical & 80% horizontal
Maximum input power at mid band	1 kW rms with DIN 7/16 1,5 kW rms with EIA 7/8" 4 kW rms with EIA 1 5/8"
<b>Radiation patterns at mid band</b>	
- Beam width at -3dB E plane	60°
- Beam width at -3dB H plane	20°
<b>Materials:</b>	
- Reflector screen and fittings	Stainless steel
- Dipoles and feeders	Copper and brass with protection
- Radome	Polyester
Mounting	4 holes for M8 mounting bolts
Lightning protection	All metal parts are DC grounded
<b>Wind load at 160 km/h</b>	
- Frontal	675 N
- Side	350 N
- Rear side	800 N
Maximum wind velocity	225 km/h
Dimensions	1.075 x 500 x 191
Weight	12,5 kg
Radome colors	Red or white or grey

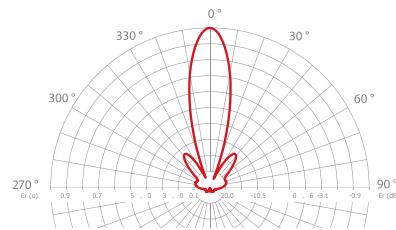
## Radiation Patterns

### TVPA 40/50S

at mid-band 660 MHz



in E-plane



in H-plane

