



Narrow and Wide Beam Scalar Feed Horns QSH/QSW

Characteristics

- ♦ Symmetrical Beam in E and H-planes
- ♦ Large Range of Beam Widths Offered
- ♦ Low VSWR, Low Sidelobes
- ♦ Polarization Insensitive



Product Description

QuinStar Technology series QSH and QSW narrow and wide beam scalar feed horn antennas have been designed for use in antenna applications requiring highly symmetric beam pattern, low VSWR and low sidelobes. The radiation patterns are polarization-independent, i.e., relatively independent of plane of measurement. Scalar feed horn with half-power full beam width ranging from about 10 degrees to 60 degrees are available, with standard designs

at 25, 40 and 55 degrees. These feed horns are ideally suited for illuminating lens (in Lens Horn Antennas) and as feeds for Cassegrain Reflector Antennas with virtually any f/D ratio. QuinStar's Scalar Feed Horns offer a fairly broad operating bandwidth, up to 50% of center frequency, and high cross-polarization isolation (typically 30 dB).

Specifications

Performance Characteristics	Available Range
Beamwidth (Half Power Full Width)	Series QSH10 to 40 degrees Series QSW 40 to 60 degrees
Pattern Variation between E- and H- Planes	+/- 2 dB over main lobe
Sidelobe Level	Typically 25 dB below main beam
Cross Polarization Isolation	30 dB typical
Bandwidth	50% of center freq.

Ordering Information

Model Number

