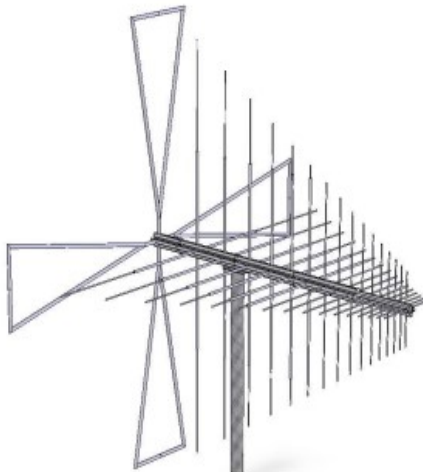


Dual-Polarized LPDA Antenna Model no.: SRFS- LPDA-A0040

Product Description

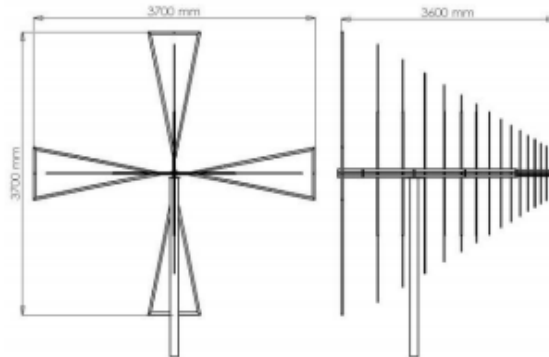
The LPDA-A0040 is a high-powered, 1 kW, directional log periodic dipole array that covers the 30 to 100 MHz frequency band. The antenna is supplied with its mounting bracket and isolator pole.



Electrical Specifications	
Frequency range	30 – 100 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω (nominal)
Isolation	< 15 dB
Feed power handling	1 kW
Front-to-back ratio	< 20 dB
Gain	5 dBi typical over the frequency band. Gain reduces from about 6 dBi at 42 MHz to 0.5 dBi at 30 MHz
Elevation 3 dB beamwidth	64° – 80°
Azimuth 3 dB beamwidth	260° – 116°
Polarization	Dual
Connectors	Two 7/16 female (one for each)
MTBF	50,000 hours
Mechanical Specifications	
Dimensions (w x l)	2882 mm x 2804 mm x 829 mm
Material	Aluminium, stainless steel, fibre glass
Mounting method	On a swivel bracket fitted to the mast (requires isolation pole to change polarization which is standard issue)
Packaging	Transportable bag or crate
MTBF	100,000 h
Environmental Specifications	
Wind survival	160 km/h (calculated)
Qualification	Design to comply with applicable parts of MIL-STD-810E temperature)
Temperature (operational)	-40 ° C to +55 °C (no icing)

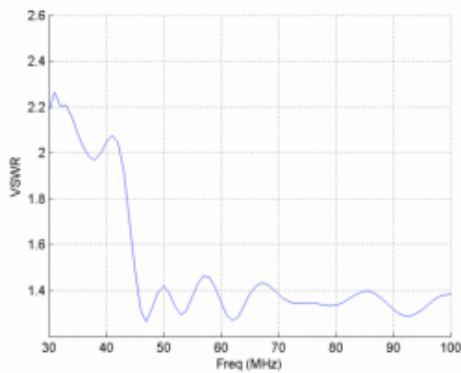
Dual-Polarized LPDA Antenna Model no.: SRFS- LPDA-A0040

PHYSICAL DIMENSIONS:

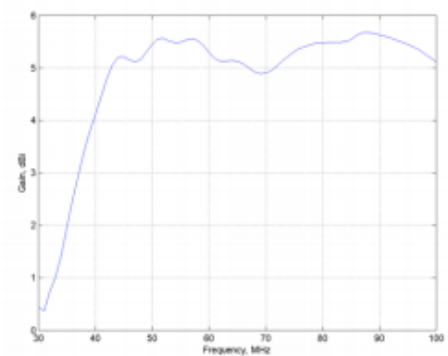


VSWR AND GAIN GRAPHS:

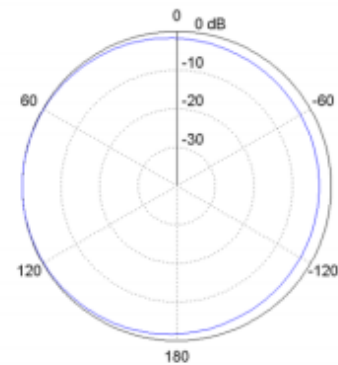
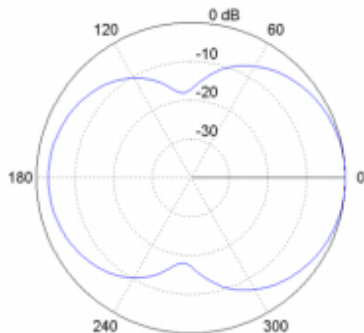
VSWR FOR EACH POLE:



GAIN CURVE FOR EACH POLE:

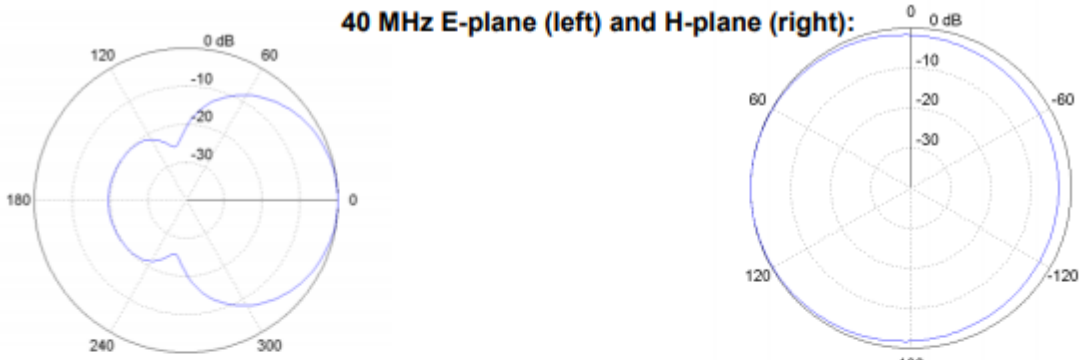


30 MHz E-plane (left) and H-plane (right):

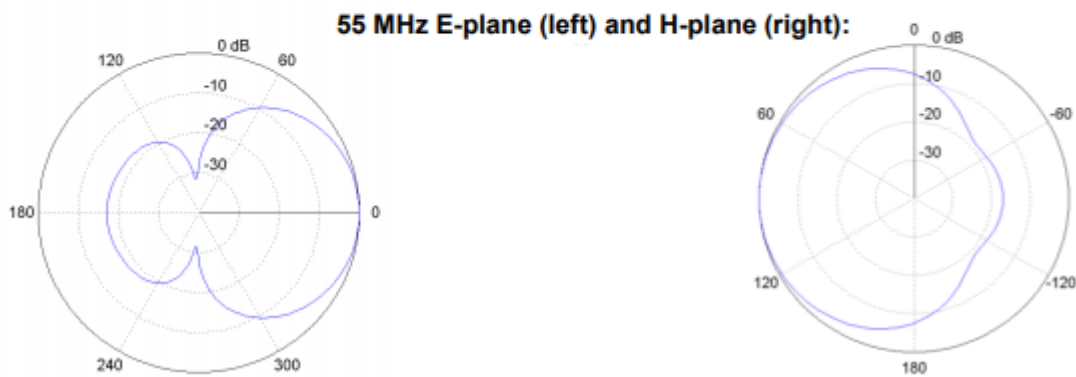


Dual-Polarized LPDA Antenna Model no.: SRFS- LPDA-A0040

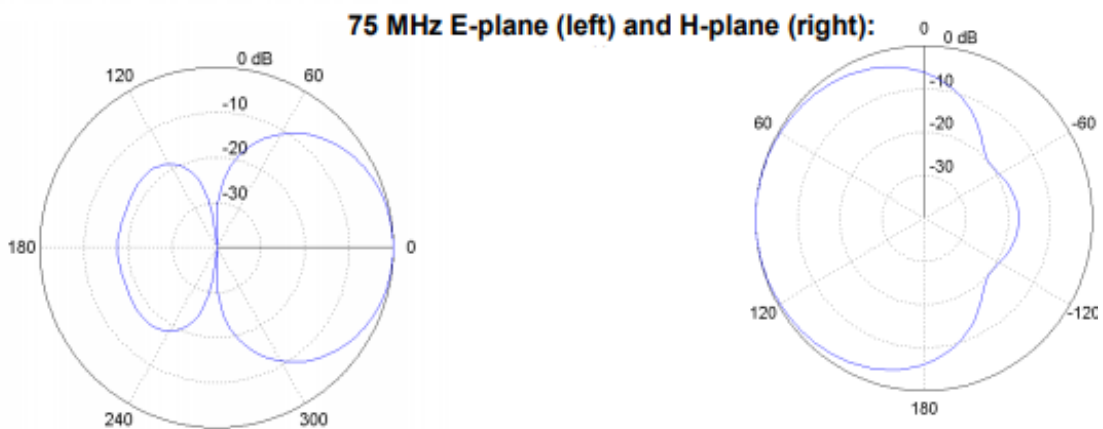
40 MHz E-plane (left) and H-plane (right):



55 MHz E-plane (left) and H-plane (right):



75 MHz E-plane (left) and H-plane (right):



100 MHz E-plane (left) and H-plane (right):

