

High-Power LPDA Antenna Model no.: SRFS- LPDA-A0050

Product Description

The LPDA is a directional log-periodic dipole array primarily designed for EW high-power applications to cover the 30 MHz to 2500 MHz frequency band with a typical gain of 7 dBi. The polarization is adjustable between vertical and horizontal without lowering the mast. For quick deployment applications this antenna is supplied with a boom that breaks into three sections and all the elements can be removed and stored in a roll-up canvas bag for compact storage. The antenna can be assembled and erected within 10 min by two people. For fixed installations the boom and elements are configured for a more permanent erection.

Product Features

Wideband frequency 30 MHz to 2500 MHz • Low VSWR • High gain of typically 7 dBi over 90% of the band • Rugged construction and compact packaging for quick deployment applications • Easy to assemble and disassemble (< 10 minutes for two people) environments

Electrical Specifications

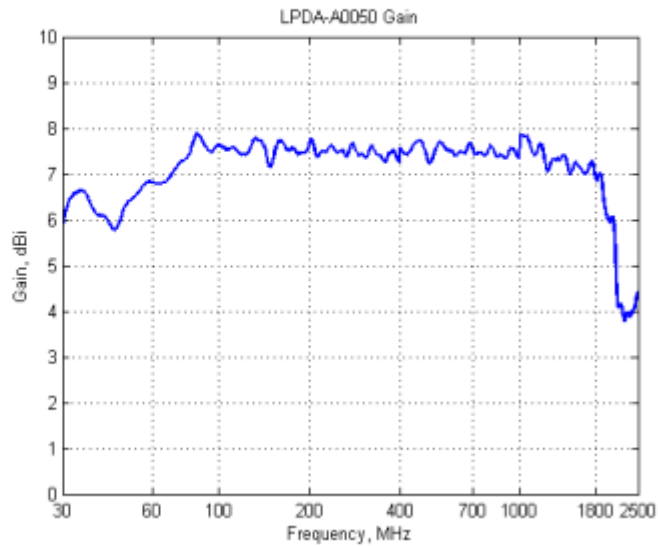
Frequency range	30 – 2500 MHz														
VSWR	1.75:1 typical, 2.5:1 maximum														
Nominal input impedance	50 Ω														
Connector	N-type female														
Feed power handling	<table border="0"> <tr> <td>LPDA-A0050 / -01</td> <td>LPDA-A0050-02 / -03</td> </tr> <tr> <td>1000 W up to 1 GHz</td> <td>2000 W up to 100 MHz</td> </tr> <tr> <td>800W up to 1.5 GHz</td> <td>1500 W up to 520 MHz</td> </tr> <tr> <td>625 W up to 2 GHz</td> <td>1000 W up to 1 GHz</td> </tr> <tr> <td>400 W up to 2.5 GHz</td> <td>800 W up to 1.5 GHz</td> </tr> <tr> <td>Rolling off to 250 W at 3 GHz</td> <td>625 W up to 2 GHz</td> </tr> <tr> <td>Rolling off to 250 W at 3 GHz</td> <td>400 W up to 2.5 GHz</td> </tr> </table>	LPDA-A0050 / -01	LPDA-A0050-02 / -03	1000 W up to 1 GHz	2000 W up to 100 MHz	800W up to 1.5 GHz	1500 W up to 520 MHz	625 W up to 2 GHz	1000 W up to 1 GHz	400 W up to 2.5 GHz	800 W up to 1.5 GHz	Rolling off to 250 W at 3 GHz	625 W up to 2 GHz	Rolling off to 250 W at 3 GHz	400 W up to 2.5 GHz
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Gain	> 4 dBi (6 dBi typical)														
E-plane 3 dB beamwidth	at 55° typical														
H-plane 3 dB beamwidth	at 100° typical														
Polarization	Adjustable: vertical and horizontal Fixed (when using LPDA-A0050-01)														
Connector	7/16 female														
Mechanical Specifications															
Dimensions	5000 mm x 6150 mm														
Material	2300 mm x 400 mm x 400 mm														
MTBF	50000 hours														
Environmental Specifications															
Wind survival	160 km/h when guyed														
Water and dust resistance	IP66														
Temperature (operational)	-35 °C to 65 °C														
Corrosion	Designed for MIL-STD-810F MIL-1250A														



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VSWR AND GAIN GRAPHS:

Measured gain:



Measured VSWR:

