



# LOG-PERIODIC DIPOLE ARRAY (LPDA)

## 698 ~ 2700 MHz Low PIM

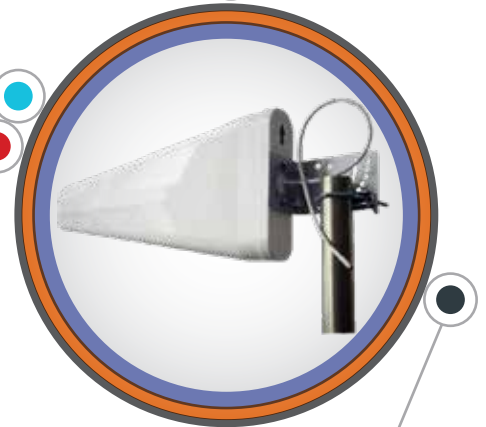
### DISADVANTAGES

- Log periodic antenna requires higher number of elements for lower frequencies in HF/VHF bands.
- The antenna offers lower gain compare to YAGI antenna having same size.
- They are not used for omni-directional applications.
- They have low polarization ratio.

### ADVANTAGES

- Radiation resistance and pattern : not depend on frequency.
- 10:1 Bandwidth can be achievable with simple design.
- The wide bandwidth is great advantage of this antenna compare to YAGI and other antenna types. Low to moderate gains can be obtained.
- It offers uni-directional and bi-directional radiation patterns. It is highly directional antenna.
- It can be used for HF/VHF/UHF communication as well as for TV reception.
- It is available in wide variety of shapes.
- It is used for two way communication requiring multiple frequencies.

LPDA stands for log-periodic dipole array antenna. It is an assembly of dipole elements. Each dipole element on the boom is longer than the one in front of it, resulting in the antenna having a triangular shape. Having many dipole elements of different lengths, an LPDA antenna can transmit and receive across a wide range of frequencies.



### CONTACT

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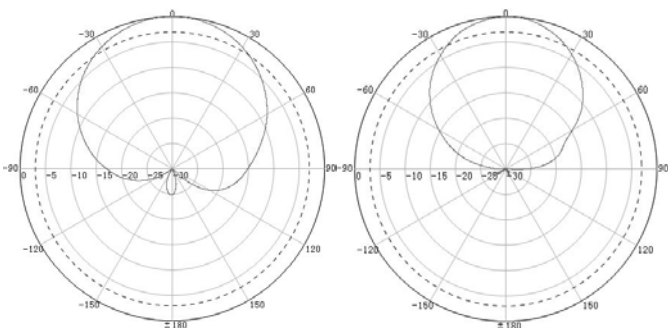
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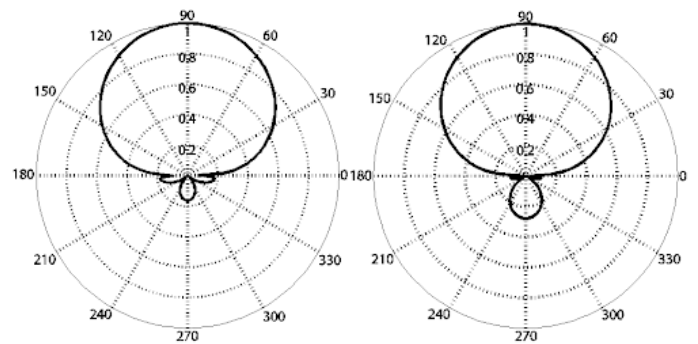
## SPECIFICATIONS

Electrical Specifications				
Model	LPDA-7027-1270		LDPA-8028-1265	
Frequency Range	698 ~ 960 MHz	1710 ~ 2700 MHz	698 ~ 960 MHz	1710 ~ 2700 MHz
VSWR	≤ 2.0	≤ 1.5	≤ 2.0	≤ 1.8
Gain	11/12 dBi		10 dBi	11dBi
3rd PIM (2 x 43 dBm)	-		≥ -140 dBc	
Polarization	Vertical		Vertical	
Front to Back Ratio	≥ 15dB		≥ 15dB	
Horizontal Beamwidth	70°		70°	
Vertical Beamwidth	50°		60°	
Input Impedance	50Ω		50Ω	
Max. Power	50W		50W	
Lightning Protection	DC Ground		DC Ground	
Mechanical Specifications				
Connector	N-Female		N-Female / 4.3-DIN Female	
Dimensions	405 x 210 x 65 mm		440 x 205 x 60 mm	
Packing Size	450 x 230 x 75 mm		450 x 230 x 75 mm	
Weight	1.1 kg		1.1 kg	
Reflector Material	Aluminum		Copper	
Radome Material	ABS		ABS (UV Stabilized)	
Rayed Wind Velocity	210 km/h		210 km/h	
Operating Temperature	-40°C ~ 65°C		-40°C ~ 65°C	
Mounting Pole	Ø38 ~ Ø52mm		Ø38 ~ Ø52mm	

## RADIATION PATTERNS



**LPDA-7027-1270**



**LPDA-8028-1265**