

LPA[L]-460-7-42-[X]

- Efficient antenna covering 450-466/698-960/1710-4200MHz
- Wall, panel or mast mount
- Ensure reliable connectivity for IOT devices
- 5mm (0.2") or 2.8mm (0.1") cable options

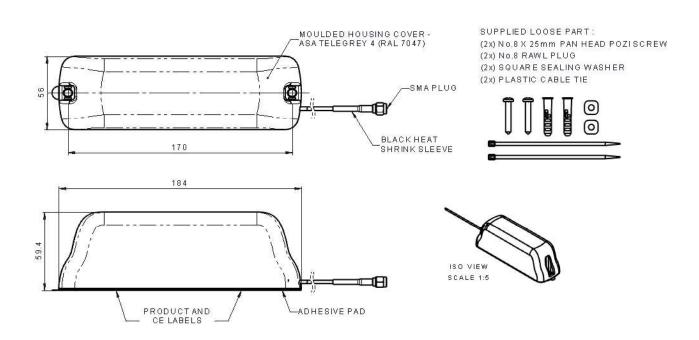
The LPA[L]-460-7-42 series is a range of efficient, omni-directional, multi-band antennas for IOT devices suitable for external or internal installation.

The design of the antenna enables simple panel or wall mounting using the supplied screws and wall plugs, adhesive pad mounting or mast mounting using the supplied cable ties. The omni-directional radiation pattern allows easy placement and flexible installation.

These antennas are an ideal solution for use in industrial and domestic environments with cellular modems/routers for IoT and Machine to Machine (M2M) wireless connectivity applications. The high performance of the antenna helps maximise first time connection rates and minimise revisits and communciatons issues after installation thereby reducing lifetime costs.

The antennas are fitted with integrated RG174 or CS29 cable and a variety of connectors.

Technical Drawing LPA-460-7-42-2SP shown



SiSo UHF/ LTE IOT Antenna

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					Product Data	
Part No.						
		LPAL-460-7-42-5SP	LPAL-460-7-42-5RFDJ	LPA-460-7-42-2SP	LPA-460-7-42-2RFDJ	
Electrical Data						
Frequency Range (MHz)			450-466 / 698-960 / 1710-4200			
Peak Gain: Isotropic+	450-466	0dBi				
	698-960MHz	4dBi				
	1710-4200 MHz	6dBi				
Typical VSWR			<3:1			
Polarisation			Vertical			
Pattern			Omni-directional			
Impedance			50Ω			
Max Input Power (W)			5			
Mechanical Data						
Dimensions (mm)	Length	184 (7.24")				
	Width	56 (2.2")				
	Height	59 (2.32")				
Operating Temp (°C)			-40° / +85°C (-40° / 185°F)			
Material			ASA			
Colour			Telegray RAL 7047			
Relative Humidity			95%			
Ingress Protection			IP65			
Regulatory Compliance			RoHS 2 (exemption 6.c applied) REACH			
Mounting Data						
Fixing			Wall /panel - screw / adhesive / cable tie pole mount			
Mounting Screw Diameter (mm)			4 (0.16")			
Cable Data						
Туре			CS29		RG174	
Diameter (mm)		Ę	5 (0.2")		2.8 (0.1")	
Length (m)		5	5 (16'4")		2 (6'6")	
Voltage Withstand		10	1000 V DC		500 V DC	
Jacket Spark		300	3000 V RMS		2000 V RMS	
Termination		SMA Plug (m)	Right Angle FAKRA D Jack	SMA Plug (m)	Right Angle FAKRA D Jack	

⁺ Swept peak gain measured with 0.5m (1.6') of cable on a 400x400mm (1.3'x1.3') ground plane.

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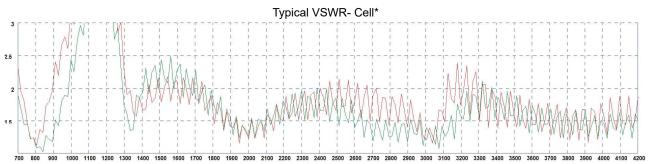
Typical VSWR- UHF*

3.5

2.6

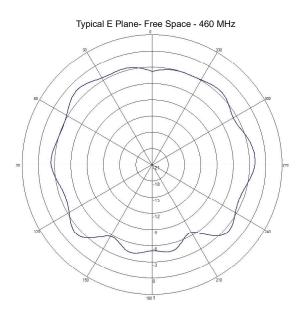
2.1.5

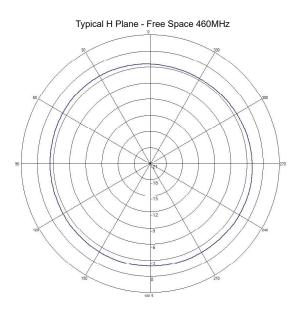
^{*} Red trace measured on 400x400mm (1.3' x 1.3') groundpane with 2m (6'6") RG174 cable Green plot measured in free space with 2m (6'6") RG174 cable



^{*} Red trace measured on 400x400mm (1.3' x 1.3') groundpane with 2m (6'6") RG174 cable Green plot measured in free space with 2m (6'6") RG174 cable

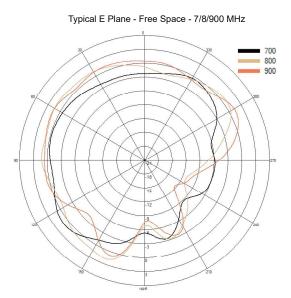
Patterns Free Space



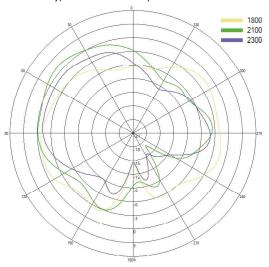


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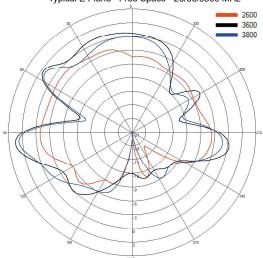
Patterns Free Space



Typical E Plane - Free Space - 18/21/2300 MHz



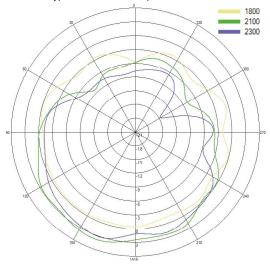
Typical E Plane - Free Space - 26/36/3800 MHz



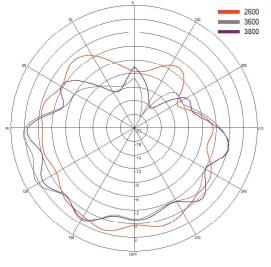
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Typical H Plane - Free Space - 18/21/2300 MHz



Typical H Plane - Free Space - 26/36/3800 MHz

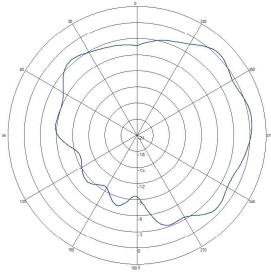


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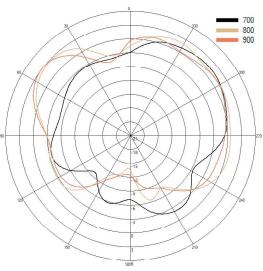
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Patterns Ground Plane

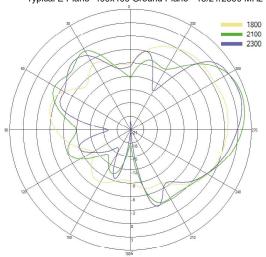
Typical E Plane- 400x400 Ground Plane - 460 MHz



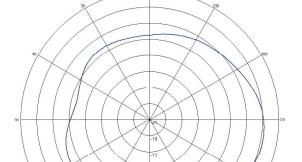
Typical E Plane- 400x400 Ground Plane - 7/8/900 MHz



Typical E Plane- 400x400 Ground Plane - 18/21/2300 MHz

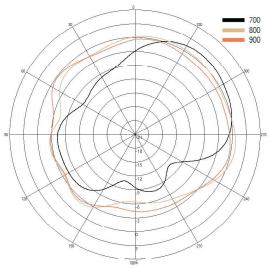


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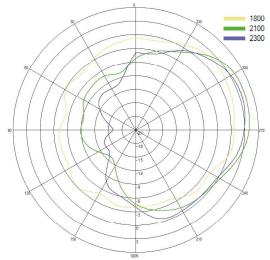


Typical H Plane- 400x400 Ground Plane - 460 MHz

Typical H Plane- 400x400 Ground Plane - 7/8/900 MHz



Typical H Plane - 400x400 Ground Plane - 18/21/2300 MHz



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Patterns Ground Plane



