LPA-7-42-[X]





- Highly efficient antenna covering 698-960/1710-4200MHz
- Wall, panel or mast mount
- Ensure reliable connectivity for IOT devices

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

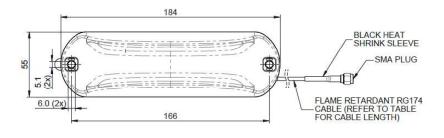
The design of the antenna enables simple wall mounting using the supplied screws and wall plugs, adhesive pad mounting or mast mounting using the supplied cable ties.

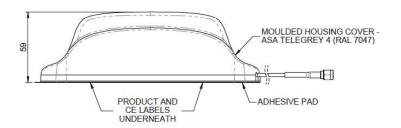
The omni-directional radiation pattern allows easy placement and flexible installation.

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 flame retardant RG174 cable and a variety of connectors. Panel mount versions (Part number LPAP-7-42-[X]) and versions fitted with low loss cable for longer cable runs (Part number LPAL-7-42-[X]) are also available.

Technical Drawing LPA-7-42-2SP Shown





SUPPLIED LOOSE PART:
(2x) No.8 X 25mm PAN HEAD POZI SCREW
(2x) No.8 RAWL PLUG
(2x) SQUARE SEALING WASHER
(2x) PLASTIC CABLE TIE

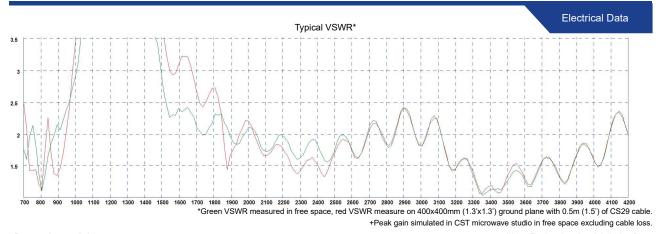






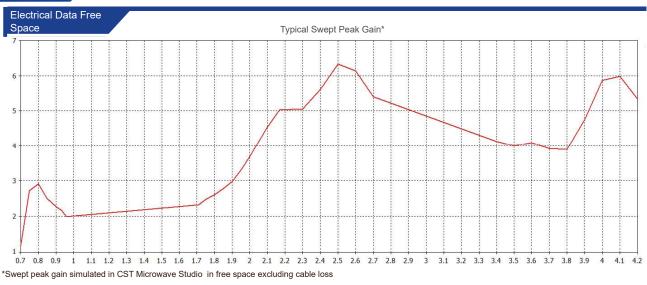


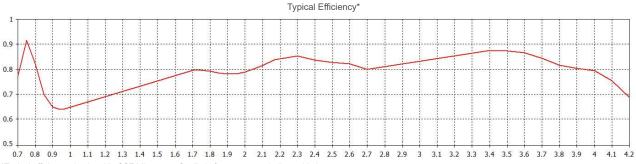
			Product Data	
Part No.				
		LPA-7-42-2SP	LPA-7-42-2RFDJ	
Electrical Data				
Frequency Range (MHz)		698-9	698-960 / 1710-4200	
Peak Realised Gain: Isotropic+	698-960MHz		2dBi	
	1710-4200 MHz		6dBi	
Typical VSWR			<2.5:1	
Polarisation			Vertical	
Pattern		Om	Omni-directional	
Impedance			50Ω	
Max Input Power (W)			10	
Mechanical Data				
	Length	1	184 (7.24")	
Dimensions (mm)	Width		55 (2.16")	
	Height		59 (2.32")	
Operating Temp (°C)		-40° / +85	-40° / +85°C (-40° / 185°F)	
Material			ASA	
Colour		Teleç	Telegray RAL 7047	
Relative Humidity			95%	
Ingress Protection			IP65	
Regulatory Compliance		RoHS 2 (exemp	RoHS 2 (exemption 6.c applied) REACH	
Mounting Data				
Fixing		Wall /panel - screw / a	Wall /panel - screw / adhesive / cable tie pole mount	
Mounting Screw Diameter (mm)			4 (0.16")	
Cable Data				
Туре		FR RG174 (UN ECE R	FR RG174 (UN ECE R118 and EN45545-2 Compliant)	
Diameter (mm)			2.8 (0.1")	
Length (m)		2 (6' 6")	2 (6' 6")	
Voltage Withstand			500 V DC	
Jacket Spark		20	2000 V RMS	
Termination		SMA (m)	Right Angle FAKRA D Jack	



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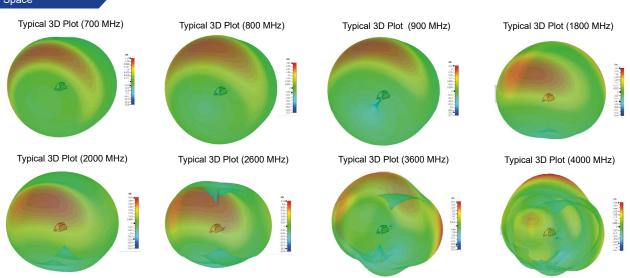






*Typical efficiency simulated in CST Microwave Studio in free space excluding cable loss

3D Patterns Free Space



^{+ 3}D patterns simulated in CST Microwave Studio in free space excluding cable loss

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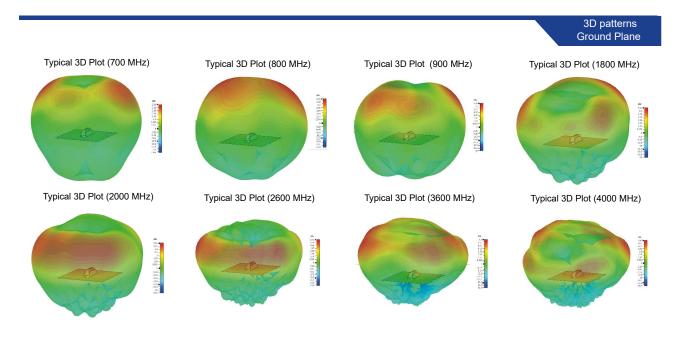




*Swept peak gain simulated in CST Microwave Studio on 400x400mm (1.3' x1.3') ground plane excluding cable loss



*Typical efficiency simulated in CST Microwave Studio on 400x400mm (1.3' x1.3') ground plane excluding cable loss



+3D patterns simulated in CST Microwave Studio on a 400x400mm (1.3' x1.3') ground plane excluding cable loss