



### EF-6-60 Range

- Covers global 4G/5G Low/Mid Bands
- Simple installation with supplied adhesive pad
- Suitable for mounting on glass or plastic surface

EF-6-60 is a range of discrete and easy to fit antennas, designed for use with vehicle installed 4G/5G routers.

The antenna has a compact, robust housing and is suitable for installation on vehicle glass or a non-conductive panel using the supplied automotive-grade adhesive pad. For temporary installation, a pair of hook/loop fixing pads are also included.

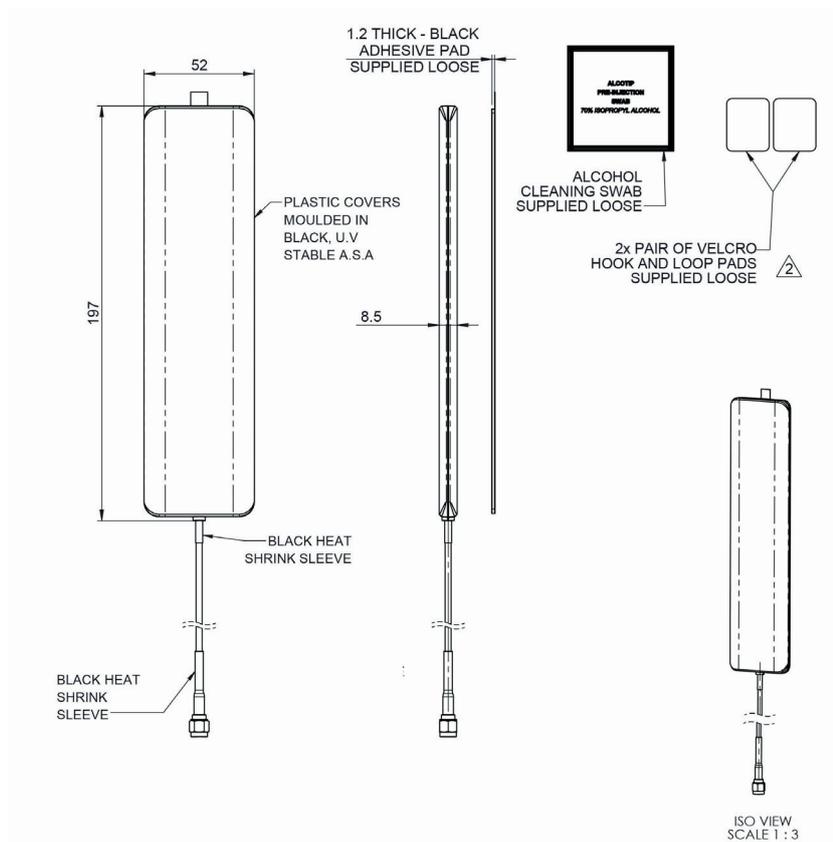
The antenna is ultra-wideband, ground plane independent and is also suitable for IoT, M2M and mobile data applications.

Covering 617-960MHz & 1427-6000MHz, the EF-6-60 supports the full range of 2G/3G/4G and 5G (sub 6GHz) frequencies globally and is available with SMA or FAKRA D connector.

The antenna has a UV resistant ASA plastic housing and is suitable for use in semi-exposed environments.

Technical Drawing

EF-6-60-3SP Shown



# 4G/5G Easy-Fit Antenna

EF-6-60-[X]

PANORAMA ANTENNAS

## Product Data

Part No.		EF-6-60-3FAKDJ	EF-6-60-3SP
<b>Electrical Data</b>			
Frequency Range (MHz)		617-960, 1427-6000	
Typical VSWR*		<2.5:1	
Peak Gain: Isotropic**	617-960MHz	2dBi	
	1427-2170MHz	3.5dBi	
	2200-2700MHz	4.5dBi	
	3400-4200MHz	4.5dBi	
	4900-6000MHz	6dBi	
Typical Efficiency***	617-960MHz	>55%	
	1427-2700MHz	>90%	
	3400-6000MHz	>85%	
Polarisation		Vertical	
Pattern		Omni-directional	
Impedance		50Ω	
Max Input Power (W)		10	
<b>Mechanical Data</b>			
Dimensions (mm)	Length	197 (7.75")	
	Width	52 (2.04")	
	Depth	8.5 (0.33")	
Material		ASA	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Colour		Black	
Ingress Protection		Equivalent to IP55	
<b>Mounting Data</b>			
Type		Acrylic adhesive pad	
<b>Cable Data</b>			
Type		FR RG174 (meets UN ECE R118.03 and EN45545-2)	
Diameter (mm)		2.8 (0.10")	
Length (m)		3 (10')	3 (10')
Termination		FAKRA D Jack	SMA Plug

\* VSWR measured with 0.5m (1.5') of RG174 cable on perspex sheet.

\*\* Typical Peak gain simulated in CST Microwave Studio on perspex sheet with 175mm (7") cable.

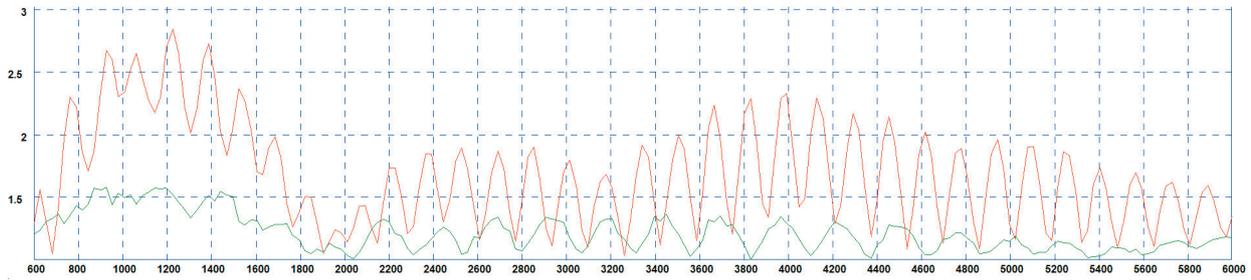
\*\*\*Typical Efficiency simulated in CST Microwave Studio on perspex sheet with 175mm (7") cable.

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EF-6-60-[X]

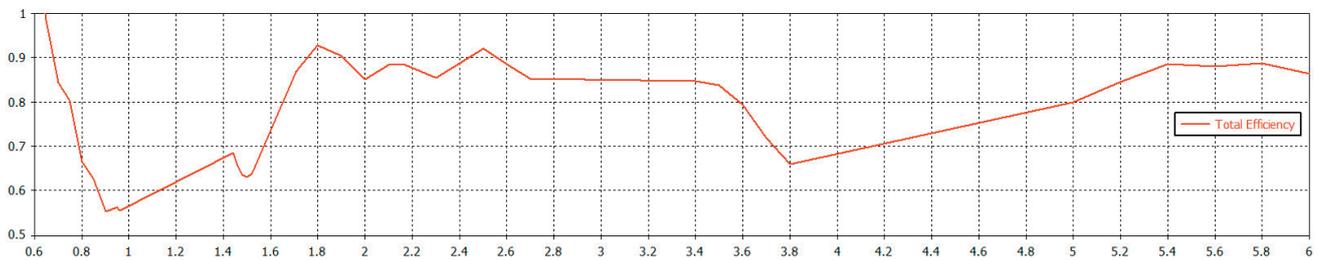
## Electrical Data

### Typical VSWR\*



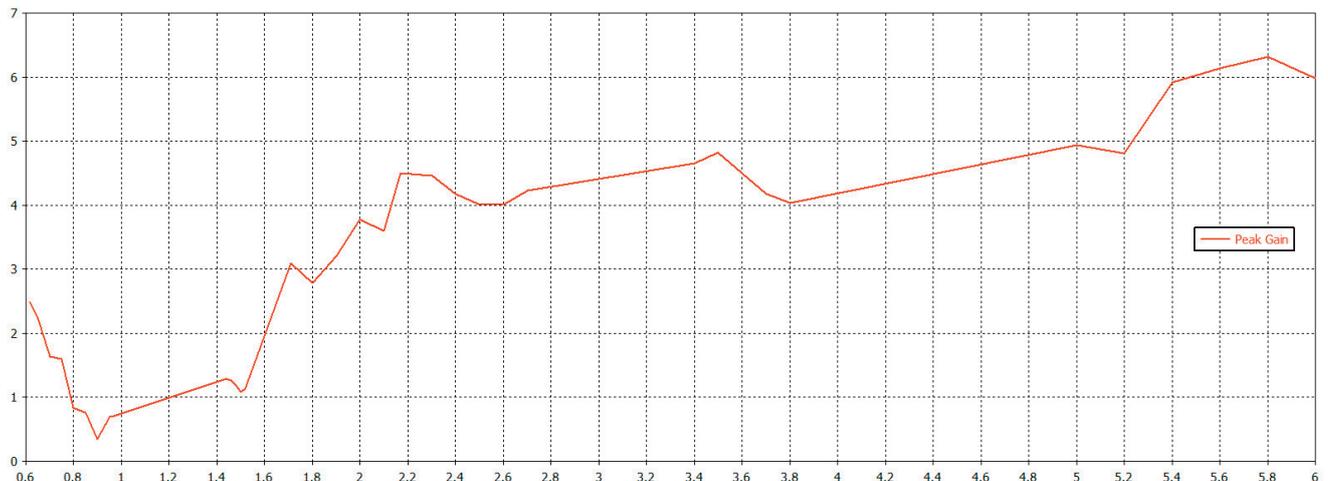
\*Red Trace= VSWR measured with 0.5m (1.5') of RG174 cable Green Trace= VSWR measured with 3m (10') of RG174 cable

### Typical Efficiency\*



\* Efficiency simulated in CST Microwave Studio with 175mm (7") cable

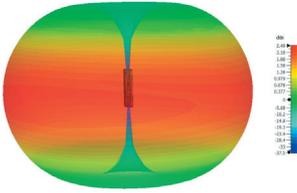
### Typical Peak Gain\*



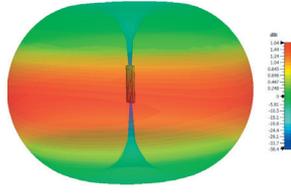
\* Peak gain simulated in CST Microwave Studio with 175mm (7") cable

### Typical 3D Patterns

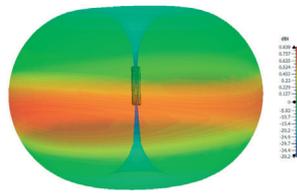
Typical 3D Pattern (617MHz)



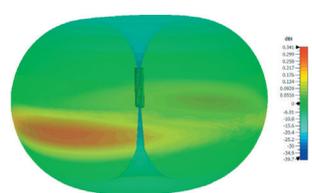
Typical 3D Pattern (700MHz)



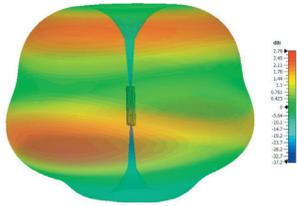
Typical 3D Pattern (800MHz)



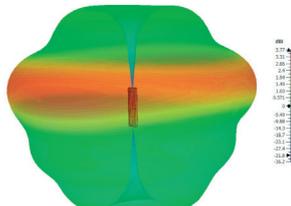
Typical 3D Pattern (900MHz)



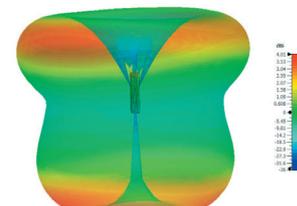
Typical 3D Pattern (1800MHz)



Typical 3D Pattern (2000MHz)



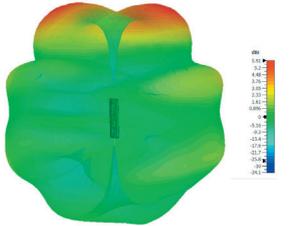
Typical 3D Pattern (2600MHz)



Typical 3D Pattern (3600MHz)



Typical 3D Pattern (5400MHz)



3D patterns simulated in CST Microwave Studio with 175mm (7") cable.