



# Cel-Fi™ HP Patch Antenna

Smart Cellular Coverage



Model Number:

**A51-100-100**

**A51-101-100**

## FEATURES

- Adhesive Mount
- High Performance
- Ground Plane Independent
- Cellular/LTE (698–960, 1710–2170 and 2500–2700 MHz)
- IP69K
- 145.5×41.8×15.2 mm

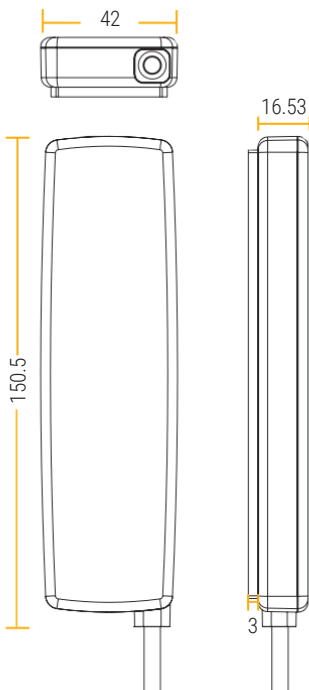
## BENEFITS

### ANTENNA AND ELECTRICAL SPECIFICATIONS

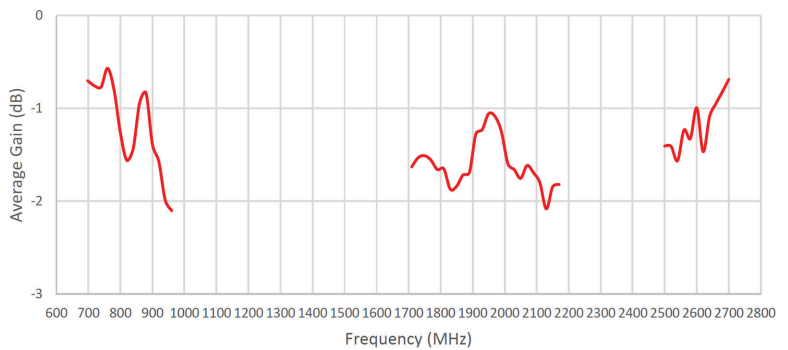
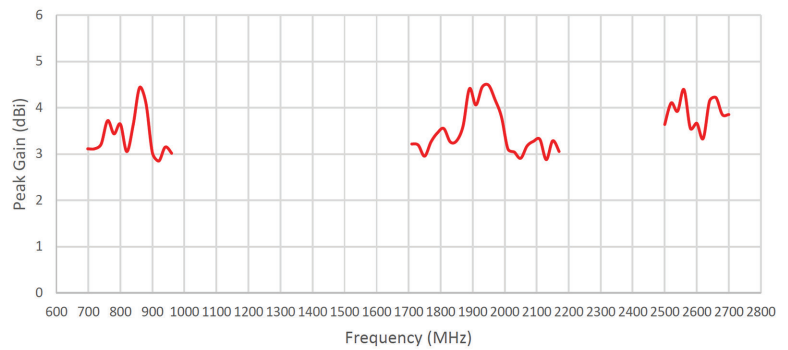
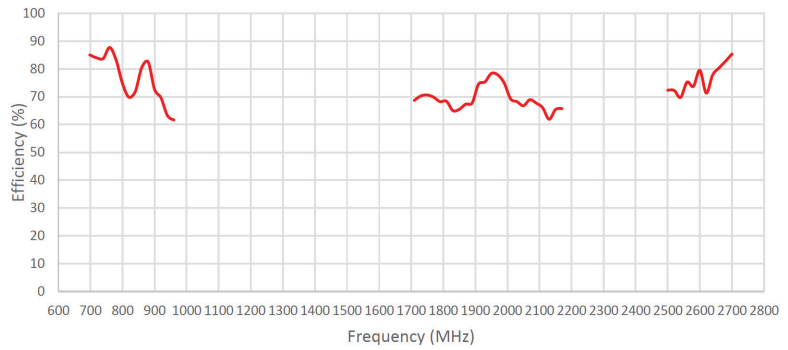
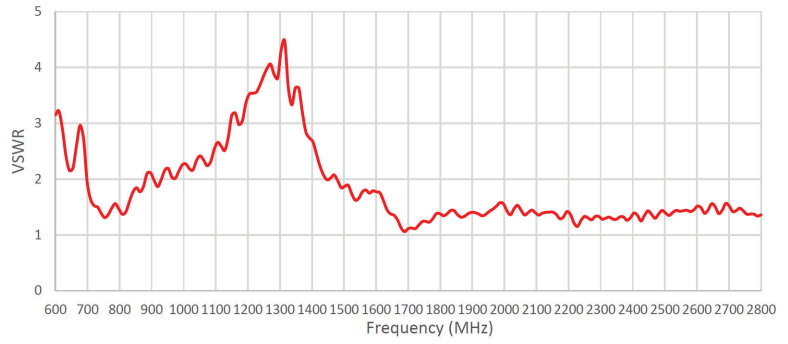
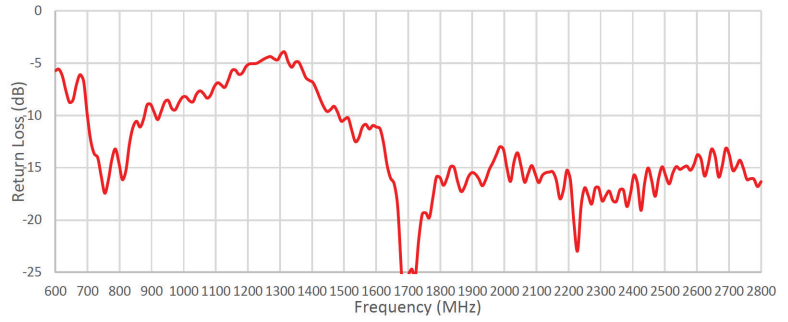
Cable 1	CELLULAR / LTE Antenna		
Standards	2G, 3G, and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698–960	1710–2170	2500–2700
Return Loss (dB)	~ -12.1	~ -16.5	~ -14.8
VSWR	~ 1.7:1	~ 1.4:1	~ 1.5:1
Efficiency (%)	~ 76	~ 69	~ 76
Peak Gain (dBi)	~ 3.4	~ 3.5	~ 3.9
Average Gain (dB)	~ -1.2	~ -1.6	~ -1.18
Impedance	50 Ohm		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power	25W		
Connector Type	SMA-Male		
Cable Length	800 cm (A51-100-100) / 100 cm (A51-101-100)		
Cable Type	LMR100 equivalent		

### MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

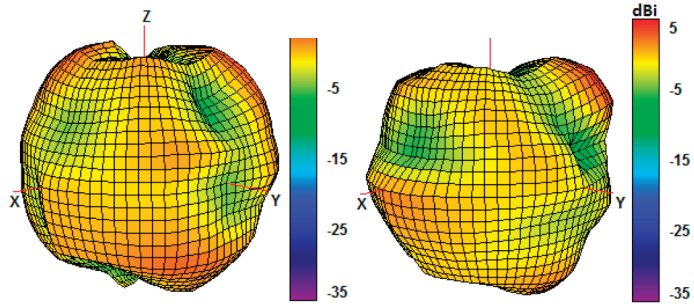
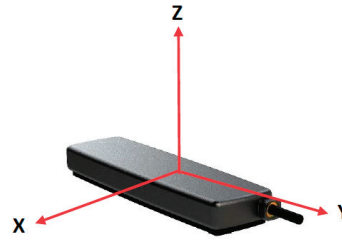
Mounting Type	Adhesive Mount
Dimensions (mm)	145.5×41.8×15.2
Radome Type	ABS UV Stable
Radome Color	White
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Ingress Protection	IP69K
Substance Compliance	RoHS



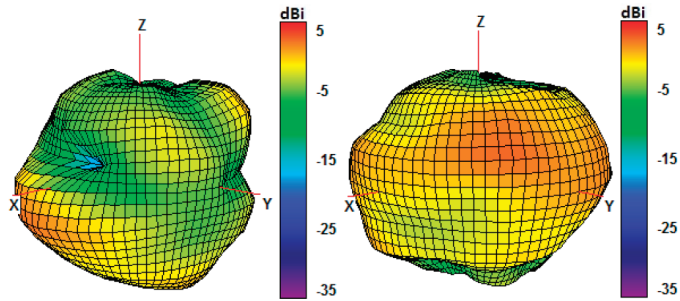
# ANTENNA PARAMETERS



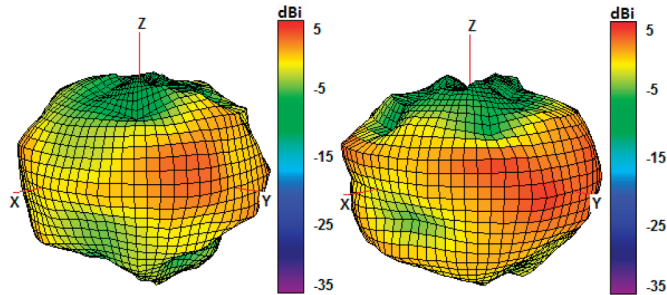
# ANTENNA PATTERNS



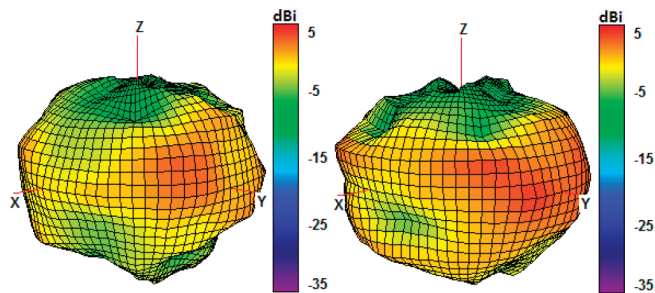
750 and 850 Mhz Radiation Pattern



940 and 1750 MHz Radiation Pattern



1850 and 1950 MHz Radiation Pattern



2100 and 2600 MHz Radiation Pattern