CELLULAR TRANSIT ANTENNA

824-2170 MHz

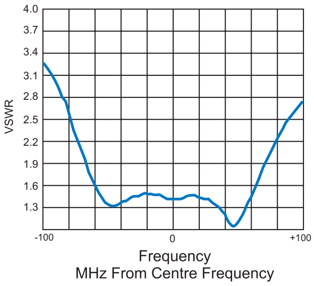
TLA2100, TLA2100

The TLA2100/3100 is an ideal antenna solution for 3G850, 3G900, GSM900/1800, GSM-R1800 and 3G2100 data applications in both fixed and mobile situations. Designed to offer true multi band performance the TLA2100/3100 is ready for use with the latest modems. With a high impact resistant vacuum formed ASA radome and neoprene mounting gasket, the TLA2100/3100 can be used for indoor or outdoor applications.

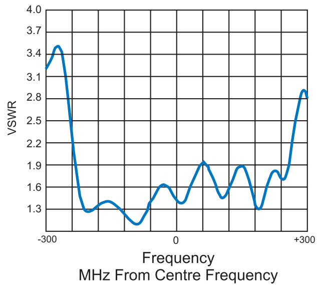
Features:

- Applications include public vending machines, ATM kiosks, industrial automotive use, asset management and rail
- Designed for use on conductive or nonconductive surfaces
- TLA3100 model incorporates integrated GPS antenna

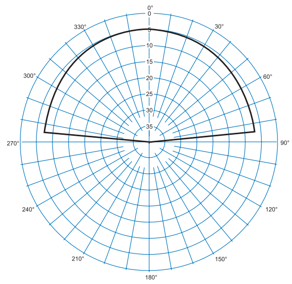
Typical VSWR response
824-960MHz @ 892MHz CF



Typical VSWR response
1710-2170MHz @ 1940MHz CF



Typical E-Plane response



Electrical

Model Number	TLA2100	TLA3100
Nominal Gain ***dBi (dBd)***	2	
Frequency ***MHz***	824-960 1710-2170	
Tuned Bandwidth	Full	
VSWR (Return Loss)	<2.5:1 (7.4dB)	
Nominal Impedance Ω	50	
Vertical Beamwidth	Hemispherical	
Horizontal Beamwidth	Omnidirectional	
Input Power ***W***	10	

Mechanical

Model Number	TLA2100	TLA3100
Construction	White Geloy ASA radome	
Diameter ***mm***	135	
Height ***mm***	61 including gasket	
Termination	5m of 9006 cable with an SMA male connector terminated	Cellular: 5m low loss 9006 cable with SMA male terminated
		GPS: 5m of RG174 cable with an MCX connector
Mounting Area	135mm Ø +6 mounting holes (suits M4 screws - not supplied)	

GPS

Frequency	1575.42MHz
Operation Temperature	-40 to +85 degrees C
Storage Temperature	-40 to +100 degrees C
System Gain	28dBi including cable and filter losses
Impedance	50Ohm
Polarization	RHCP
VSWR	1.5:1
Noise Figure	<1.8 dB max.
Power Input	+2.5Vdc to +12Vdc input, Auto Switching
Power consumption	11mA to 13mA (max)