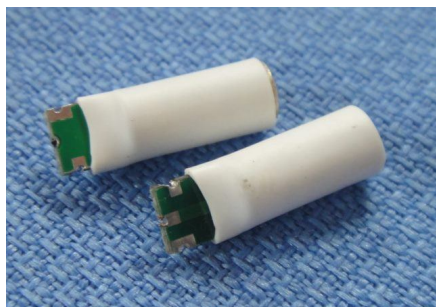


# Ceramic Helix GSM/3G Antenna

## MODEL: IA100C



- Operation temperature: -25°C to +85°C
- Frequency range: 1710-2170MHz
- OD6mm x 17.5mm (+/-0.5mm)
- Bandwidth :450Mhz

This product specifications are applied to the helical antenna composed of helix on the dielectric material and conducting mechanism used for the wireless communication system. **Please contact us when using this product for any other applications than described in the above.**

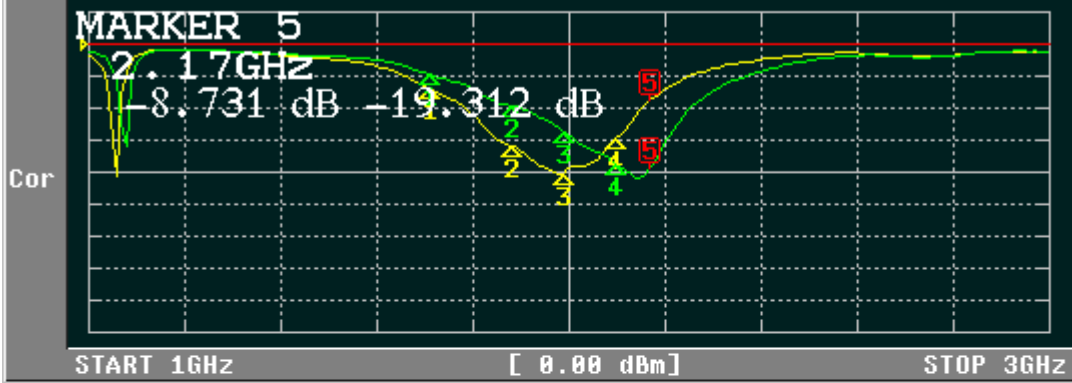
### Electrical Characteristics:

Item	Specification
Center Frequency @ 50*50mm GND Plane & ABS Plastic cover	1710-2170Mhz
Band Width @ Return Loss $\leq$ -7dB	$\geq$ 450
V.S.W.R. @ Center Frequency	$\leq$ 1.5
Axial ratio	$\leq$ 3
Polarization	Linear polarization
Impedance	50

### Return Loss and Smith-char :



CH1 RFL **MEM** LOG MAG MKR 5: 2.17GHz  
 REF 0.000 dB 5.000 dB/ -8.731 dB -19.312 dB



CH1 MARKER LIST

1:	1.710 000GHz	-6.867 dB	-4.704 dB
2:	1.800 000GHz	-15.824 dB	-9.676 dB
3:	1.990 000GHz	-20.215 dB	-13.719 dB
4:	2.100 000GHz	-14.724 dB	-18.856 dB
5:	2.170 000GHz	-8.731 dB	-19.312 dB
6:			
7:			
8:			
9:			
10:			

Return

DISPLAY

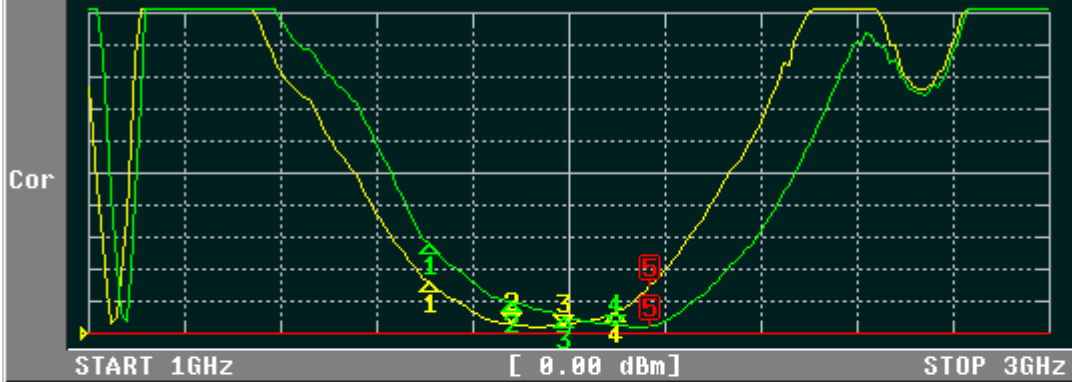
DISPLAY DATA 1

DISPLAY MEMORY 2

DISPLAY DATA&MEM 3

8

CH1 RFL **MEM** SWR MKR 5: 2.17GHz  
 REF 1.000 1.000 / 2.479 1.242



CH1 MARKER LIST

1:	1.710 000GHz	2.604	3.782
2:	1.800 000GHz	1.292	1.977
3:	1.990 000GHz	1.276	1.519
4:	2.100 000GHz	1.684	1.257
5:	2.170 000GHz	2.479	1.242
6:			
7:			
8:			
9:			
10:			

FORMAT

SWR 1

REAL 2

IMAG 3

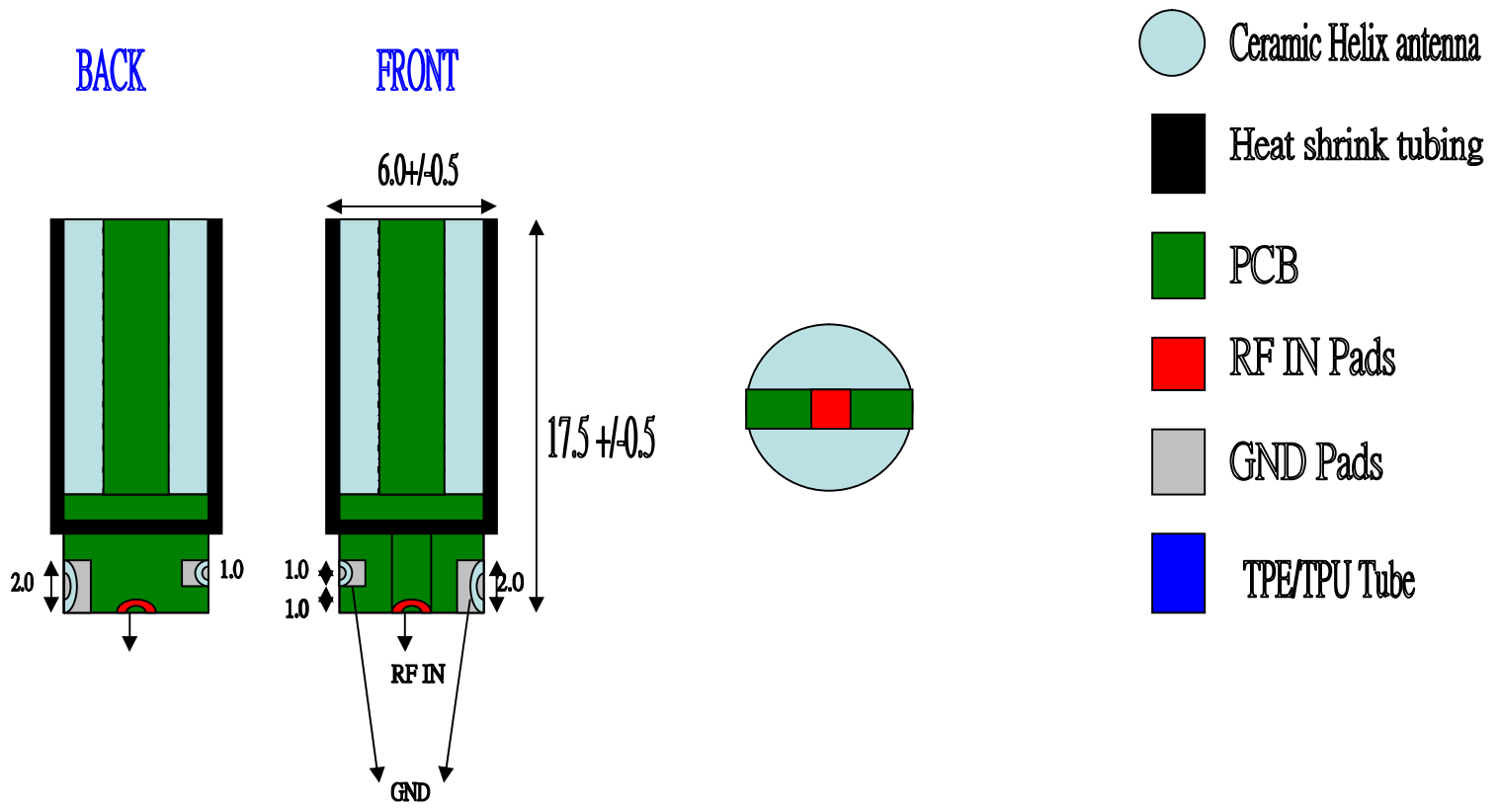
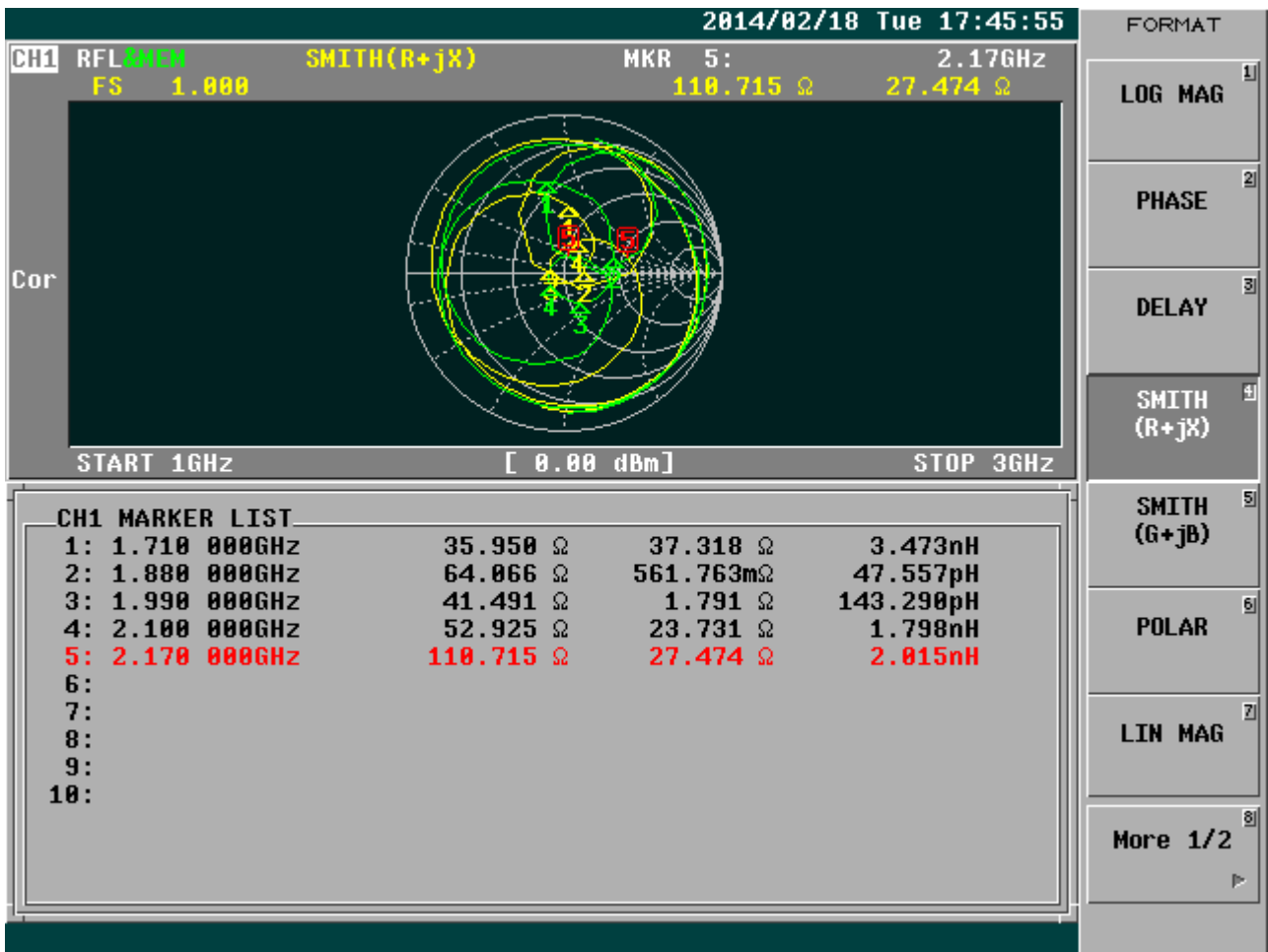
PHASE -∞, +∞ 4

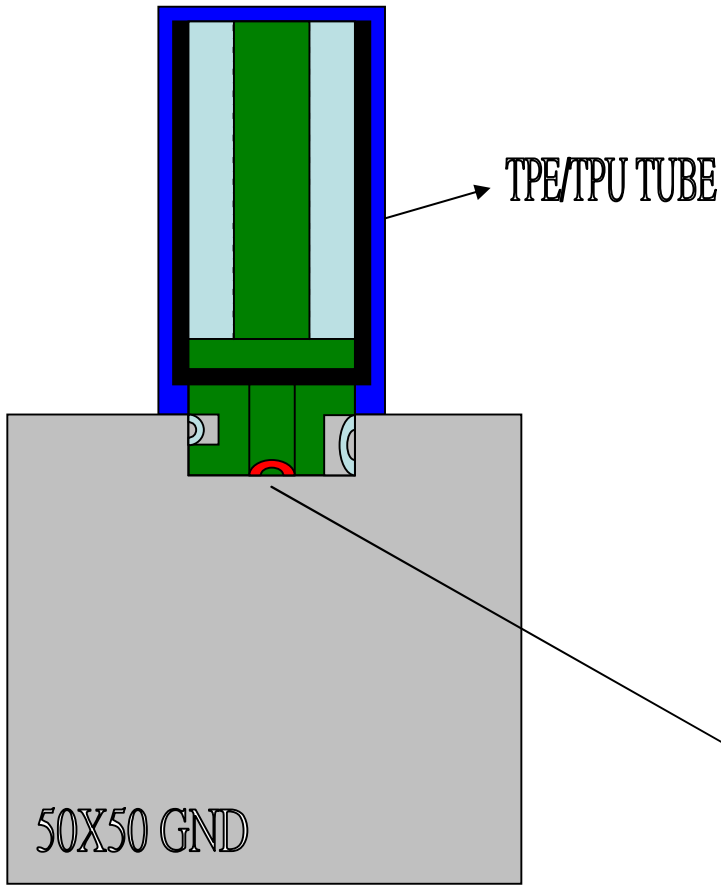
LOG MAG & PHASE 5

LOG MAG & DELAY 6

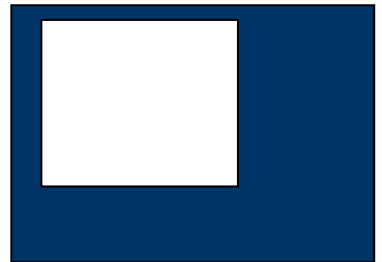
LIN MAG & PHASE 7

More 2/2 8





Fr : 1710-2170Mhz



Network Analyzer