

ECG Device ECG main Antenna FPC

W3454 - 698 to 2170 MHz



Features & Applications:

-  ECG Device main antenna
-  Applicable on 2.5D surfaces



ELECTRICAL SPECIFICATIONS @ 25°C

General Specifications

Antenna type	Nominal Impedance	Polarization	Radiation pattern
Monopole	50Ω	Vertical / Linear	Omni

Antenna: 698 – 2170MHz

Port	Frequency (MHz)	698-960	1710-2170
LTE1	Return loss (dB)	-5	-3
LTE1	Efficiency (dB)	-1.2 ... -4.8	-1.3 ... -5.3

MECHANICAL SPECIFICATIONS

W3454

Dimension (Length x Width)	Material	Color			
75.16mm x 26.22mm (2.959" x 1.032")	Cu+PI	Black			

ENVIRONMENTAL SPECIFICATIONS

W3454

Operating Temperature	Ingress Protection	RoHS Compliant	
-29/+70° C	N/A	Yes	

Notes:

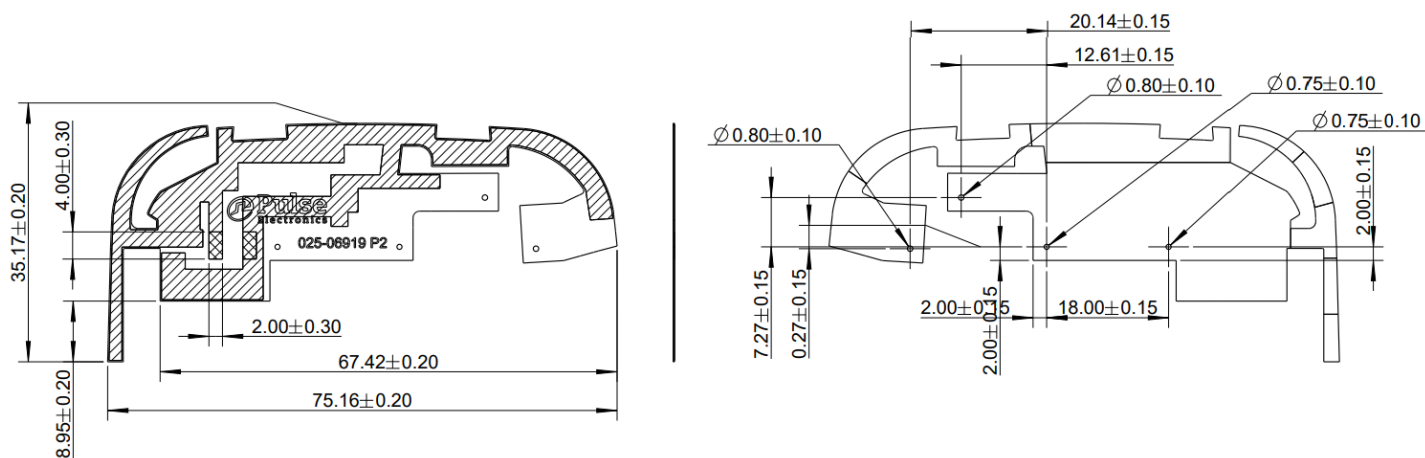
- Storage Temperature: -29°C to 70°C

Dimensions: inches (mm) Unless otherwise specified, all tolerances are ±.010 (0.25mm)



Mechanical Drawing

W3454



Cu + soldermask



Cu + 2-5um Ni+0.1um Min. flash gold plating



Test Setup

General / Chamber Setup



Figure 1 Cable route

- Measured at Pulse, Finland (in Satimo SG64 chamber)
- Cable tied to bundle

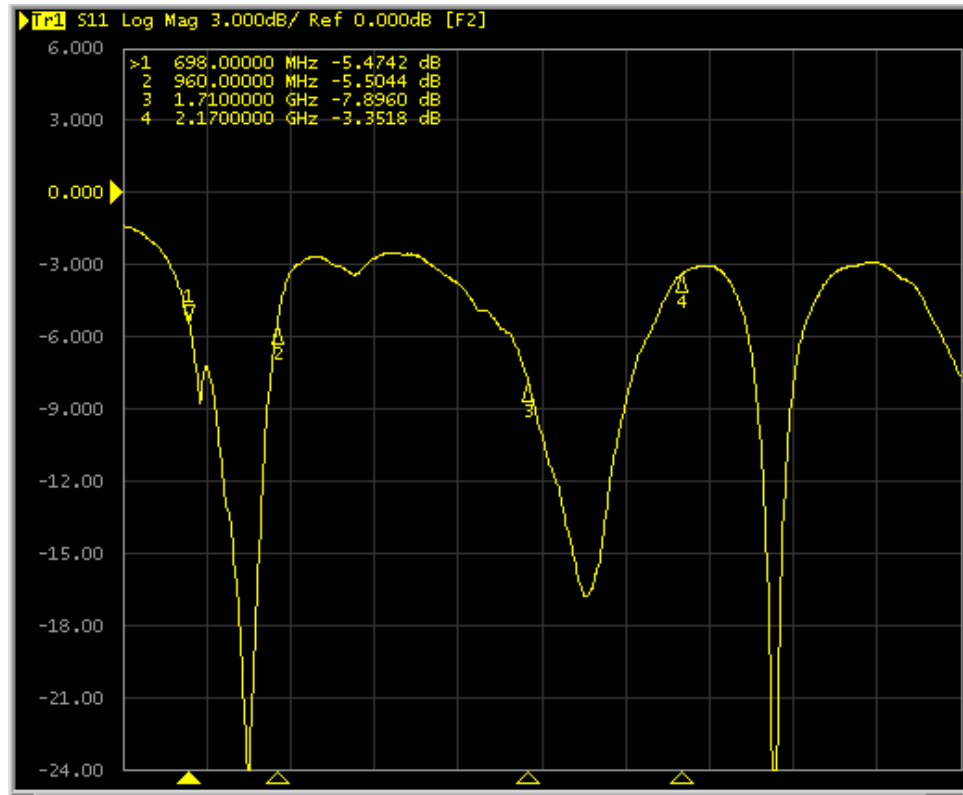


Figure 2 Measurement setup

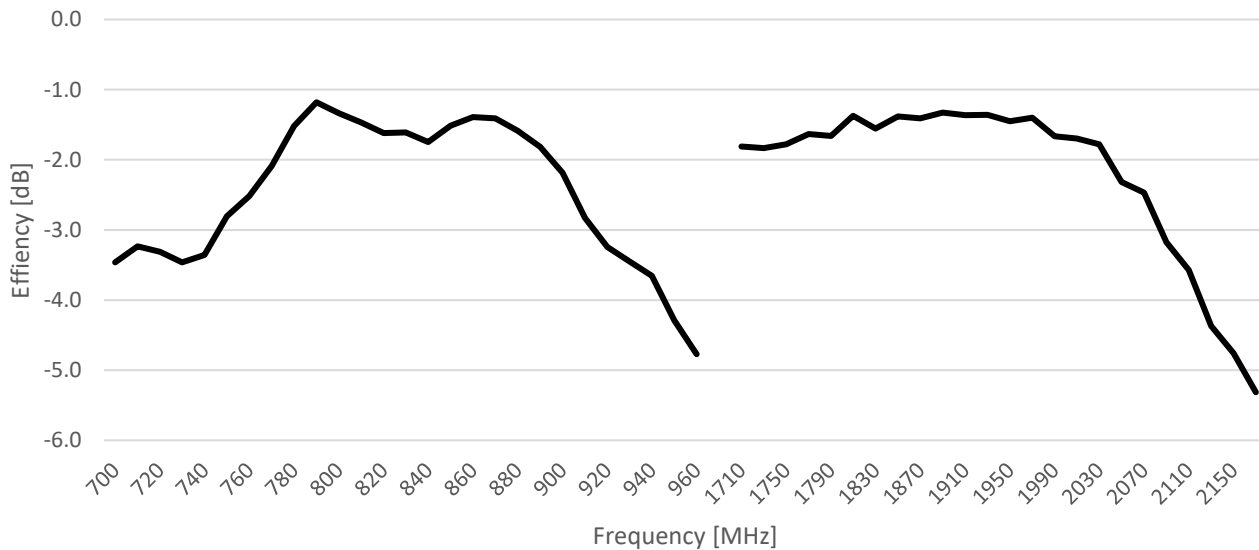


Charts - Return loss

Test data



Efficiency vs Frequency





PACKAGING

W3454

Antenna packing in box
1000pcs antennas per package box
Package box: 570mm*375mm*200mm

For More Information:

[Americas - antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) | [Europe – antennas.eu@pulseelectronics.com](mailto:antennas.eu@pulseelectronics.com) | [Asia – antennas.as@pulseelectronics.com](mailto:antennas.as@pulseelectronics.com) | [Questions?](#) +1-800-ANTENNA
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