Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Internal Quad Band PWB Antenna

(43 x 17 x 0.5 mm, PWB antenna) Pulse Part Number: W3502

Features

- Small form factor
- Size W x L x H (43x 17 x 0.5 mm)
- Low weight (0.8 g)
- Cable feed with I-PEX connector (U.FL compatible)
- Cable length 20 mm (total 27.5mm)
- Lead free materials

-RoHS Compliant Product

-Mounting options:

With adhesive tape (not included into antenna)

Plastic pegs through holes in radiator, heat stacking

Applications

- Frequency range (GSM 850 / GSM 900 / DCS / PCS)

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on device mechanics

GSM 850: 824 – 894 MHz

Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
824 – 894	2.0	60 / -2.2	-6	50	-40 to +85

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GSM 900 : 880 – 960 MHz

Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
880 – 960	1.3	55 / -2.6	-6	50	-40 to +85

DCS : 1710 – 1880 MHz

Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
1710 – 1880	1.0	40 / -4.0	-4	50	-40 to +85

PCS : 1850 – 1990 MHz

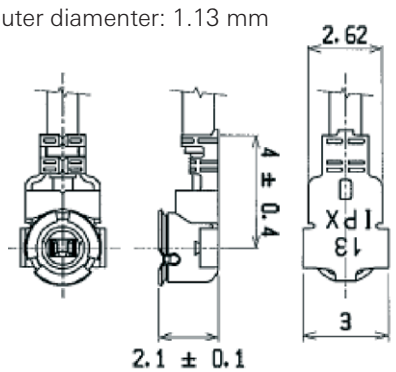
Typical free space performance, measured in test unit mechanics

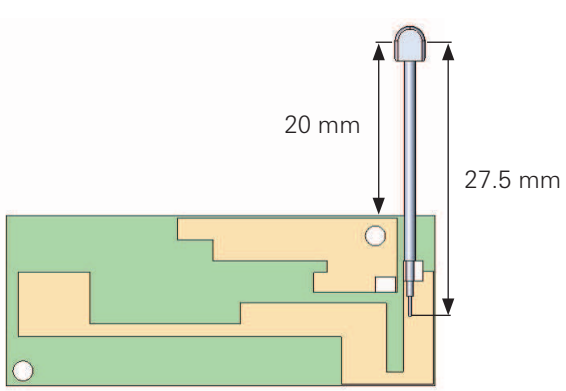
Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
1850 – 1990	2.0	50 / -3.0	-6	50	-45 to +85

Cable and Connector Configuration

Cable length: 27.5 mm

Cable outer diamenter: 1.13 mm





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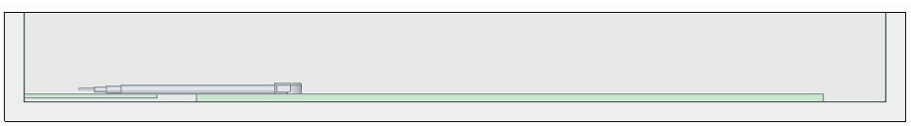
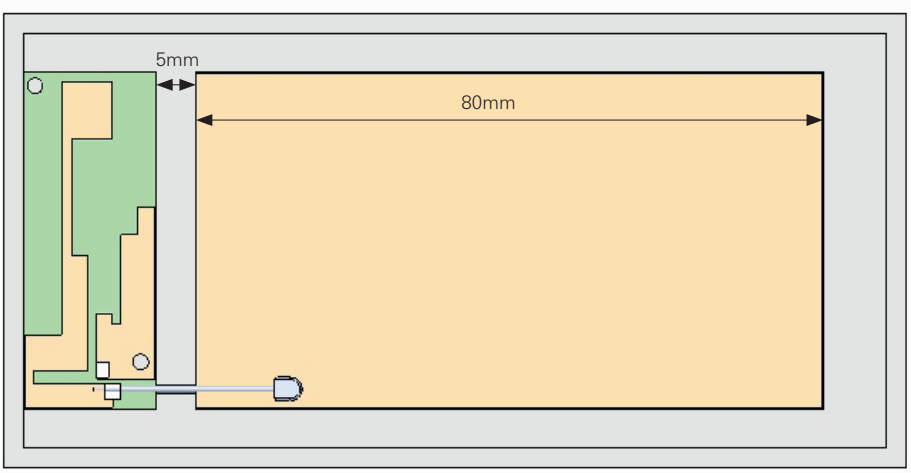
Internal Quad Band PWB Antenna

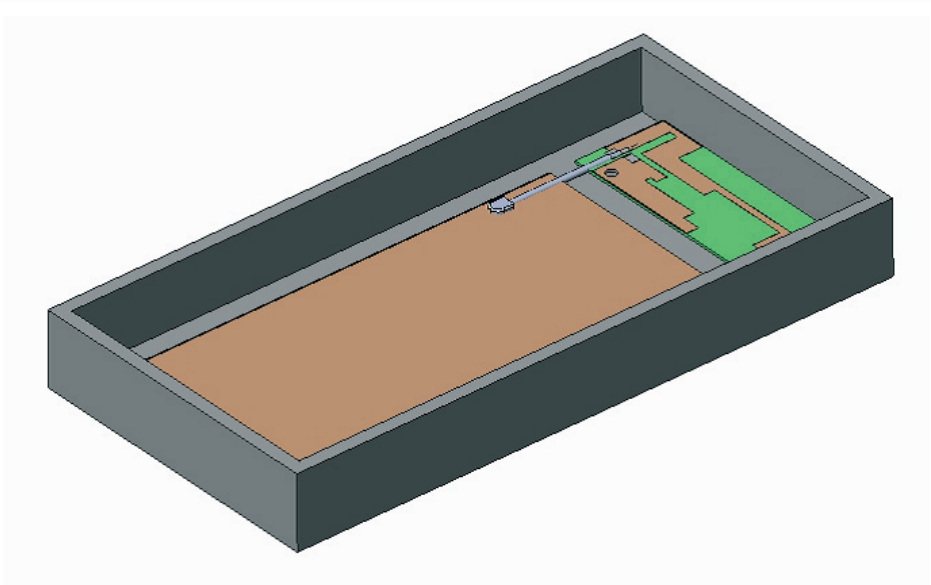
(43 x 17 x 0.5 mm, PWB antenna) Pulse Part Number: W3502

Test Unit and Antenna Location

Test unit size 110 x 58 x 28mm
Ground plane length 80mm







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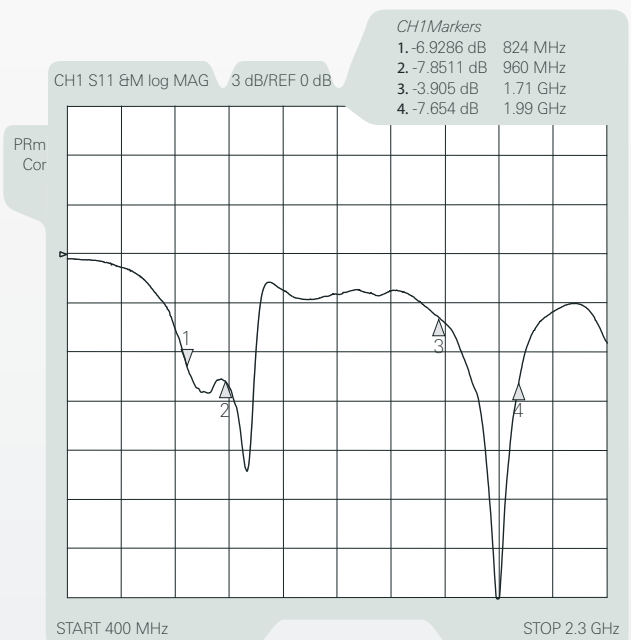
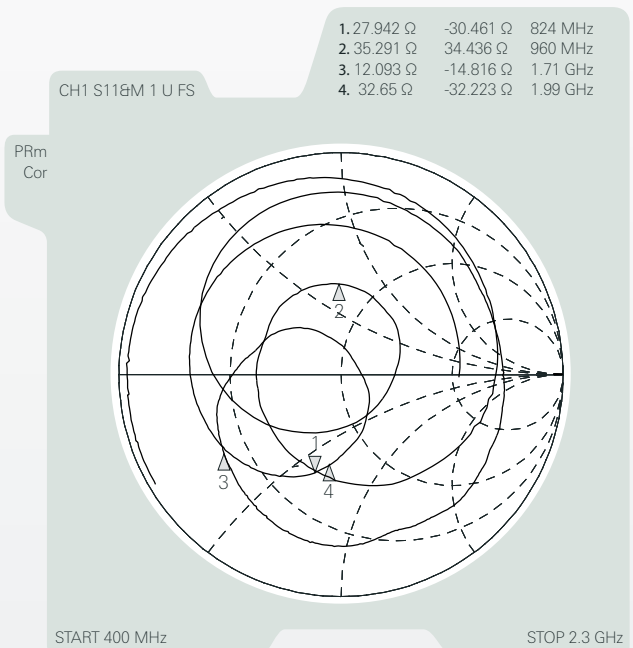
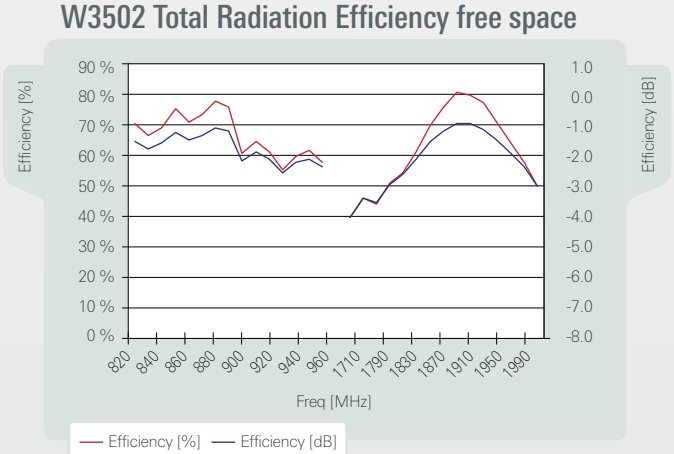
Typical Electrical Characteristics (T=25 °C)

Measured on the 80mm test board, Typical Return Loss S11/ impedance

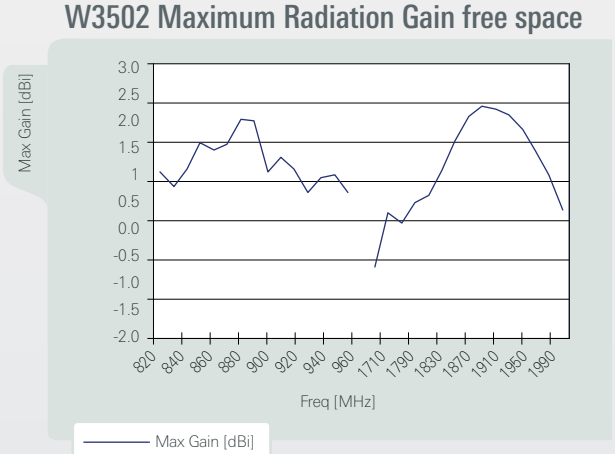




W3502 Total Radiation Efficiency free space



W3502 Maximum Radiation Gain free space



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