

QUBE 4010

OEM RFID Antenna



QUBE 4010 866 MHz

UHF RFID Antenna

Specification



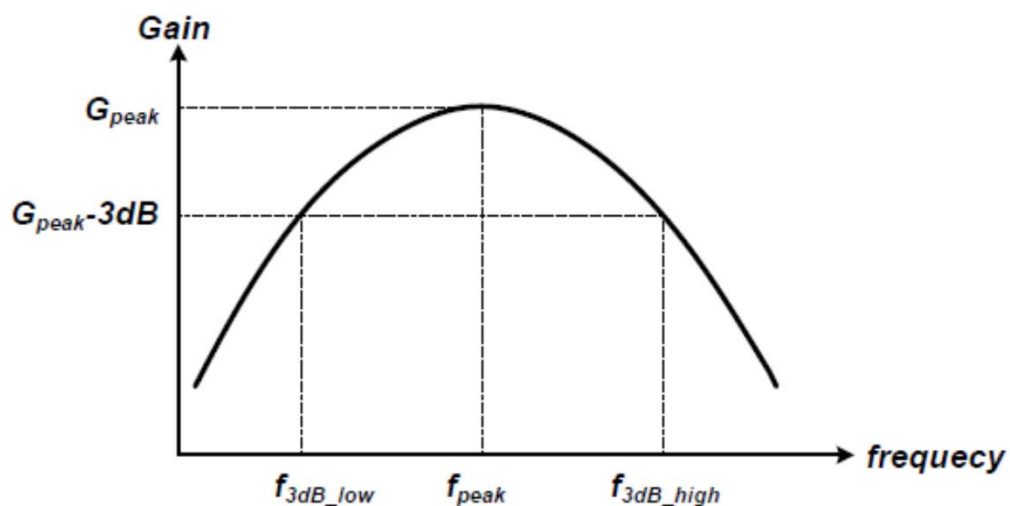
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Electrical Specifications

Item	Specifications			
	Min.	Typical	Max.	Unit
Center Frequency (= Fc)	862	866	870	MHz
Operating Frequency	$F_c \pm 5$	$F_c \pm 8$		MHz
Return Loss @ Operating Frequency			-15	dB
Polarization	R.H.C.P			
Gain @ Fc (RHCP)		-1		dBic
Gain @ Reference Antenna		-15		dB
Axial Ratio @ Fc			1.3	
Beamwidth (@3dB)	80	110		degree
Impedance		50		Ω
Operating Temperature	-30		+70	$^{\circ}\text{C}$
Weight		6.5		g

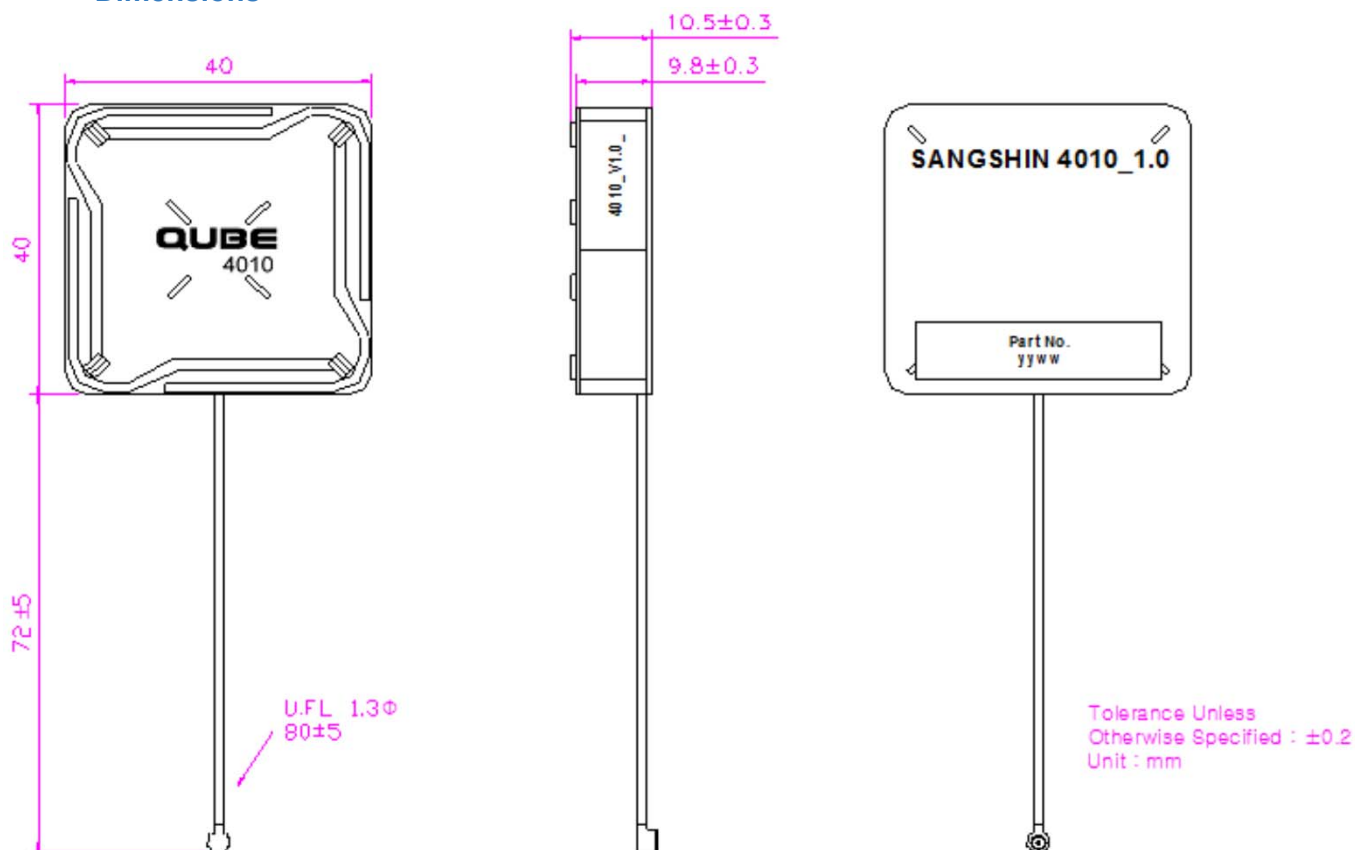
Note 1. Operating frequency is defined as frequency range between f_{3dB_low} and f_{3dB_high} .



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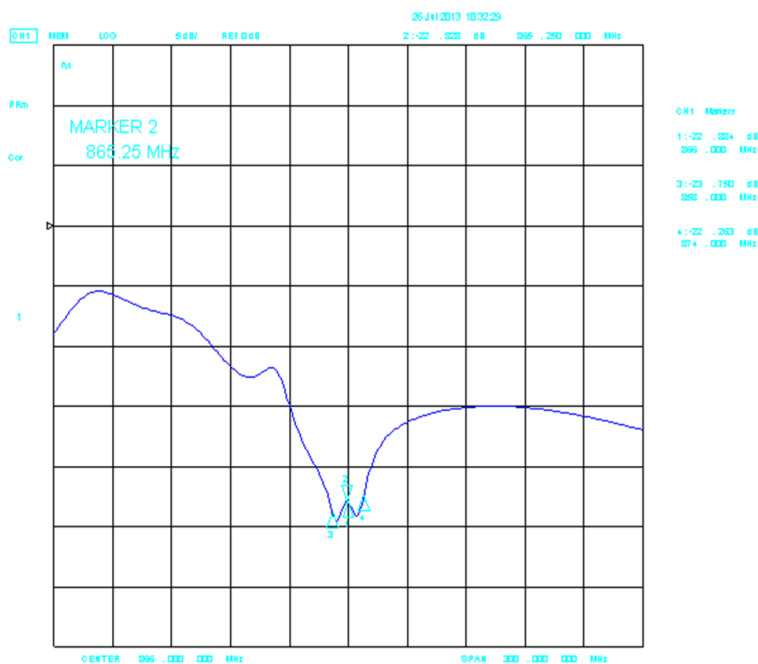
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Dimensions



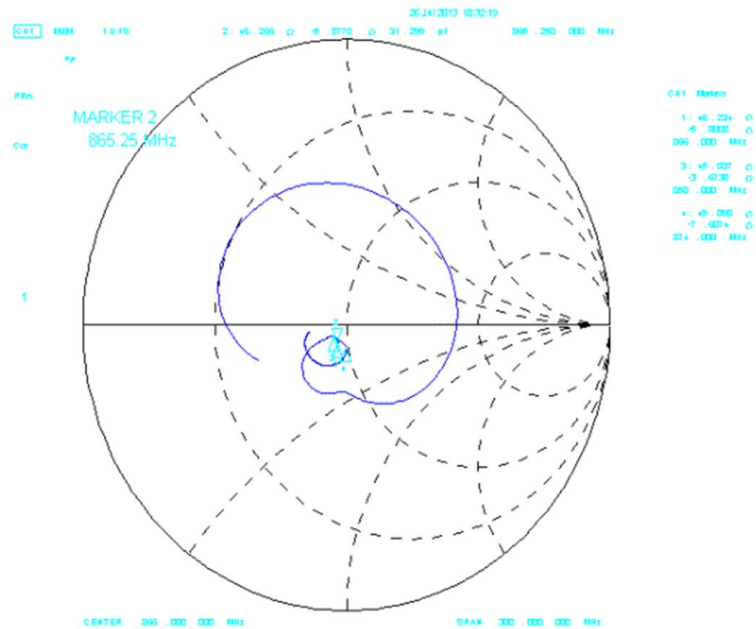
S-parameter Data

Return loss

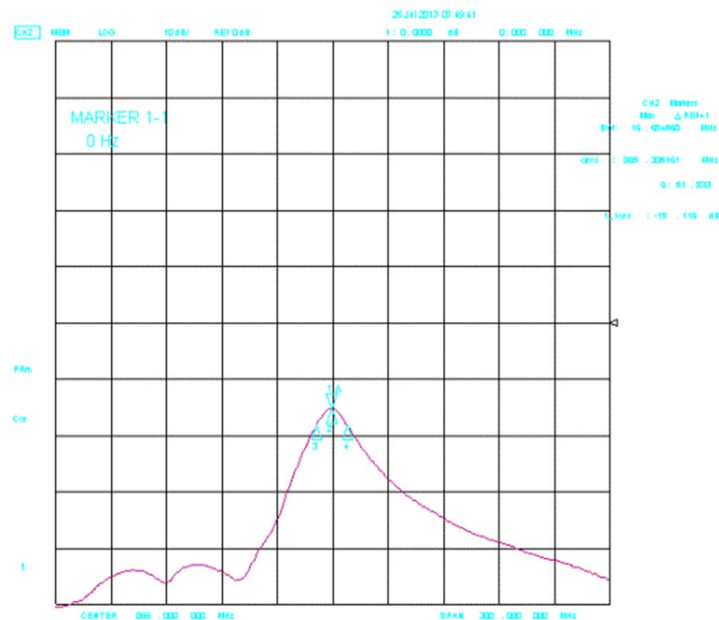


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Smith Chart



Gain

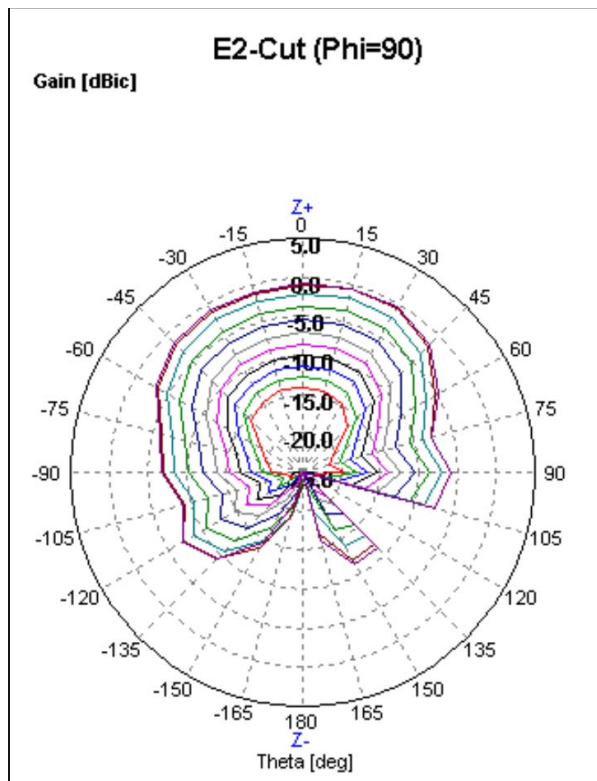


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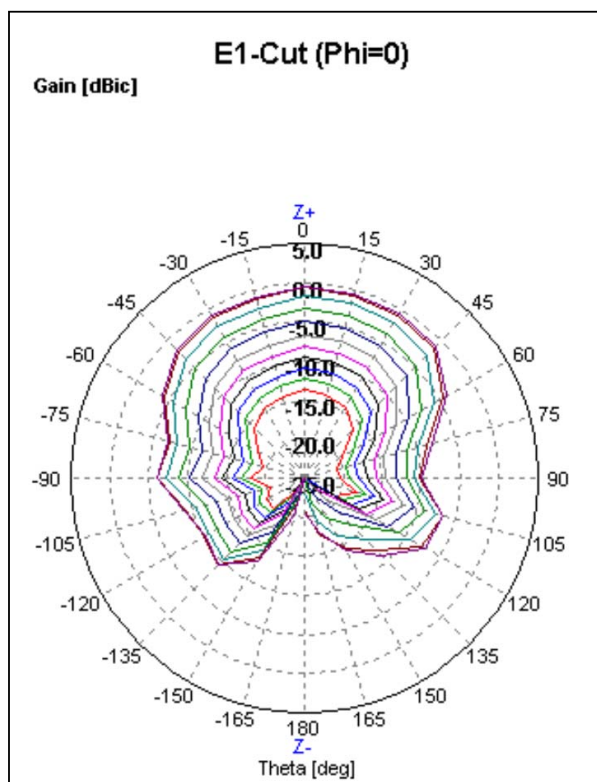
Antenna Chamber Data

E-Plane



E - plane	
Frequency [MHz]	Gain [dBic]
836	-14.11
839	-12.76
842	-11.34
845	-9.94
848	-8.60
851	-7.06
854	-5.32
857	-3.56
860	-1.92
863	-0.72
866	-0.55
869	-1.61
872	-3.24
875	-4.78
878	-6.22
881	-7.52
884	-8.60
887	-9.56
890	-10.41
893	-11.31
896	-12.03

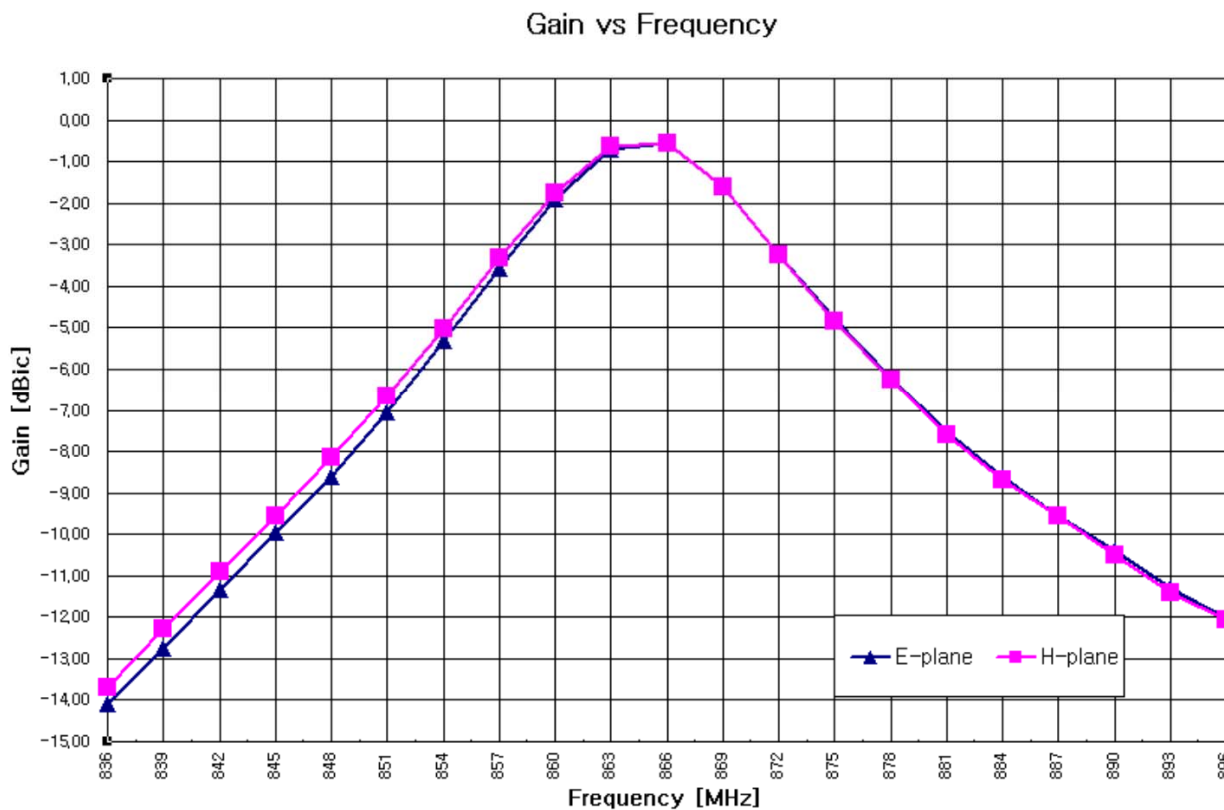
H-Plane



H - plane	
Frequency [MHz]	Gain [dBic]
836	-13.70
839	-12.27
842	-10.89
845	-9.55
848	-8.15
851	-6.66
854	-5.02
857	-3.32
860	-1.76
863	-0.65
866	-0.57
869	-1.63
872	-3.26
875	-4.83
878	-6.27
881	-7.59
884	-8.67
887	-9.57
890	-10.50
893	-11.41
896	-12.07

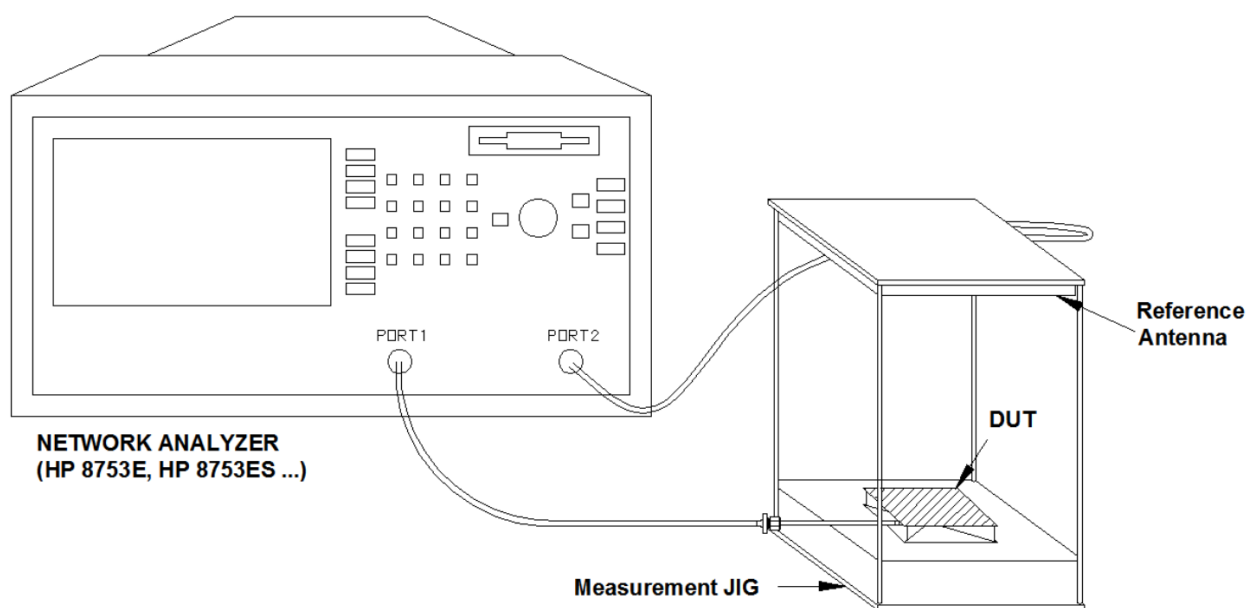
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Gain vs Frequency



Measurement Condition

Parameter Measurement



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Gain Measurement

