

APPROVAL SHEET

CUSTOMER: SAMJIN

TYPE	DIELECTRIC CHIP ANTENNA
PART NO.	KSCA-B2450MA
SPEC NO.	CA-PA-210027A
DATE	2021-09-01

DESIGN	CHECK	APPROVAL
SM Yun		



SANGSHIN ELECOM CO., LTD.

HEAD OFFICE & FACTORY

507 DANGSANRO YUNSUHMYON SEJONGSI

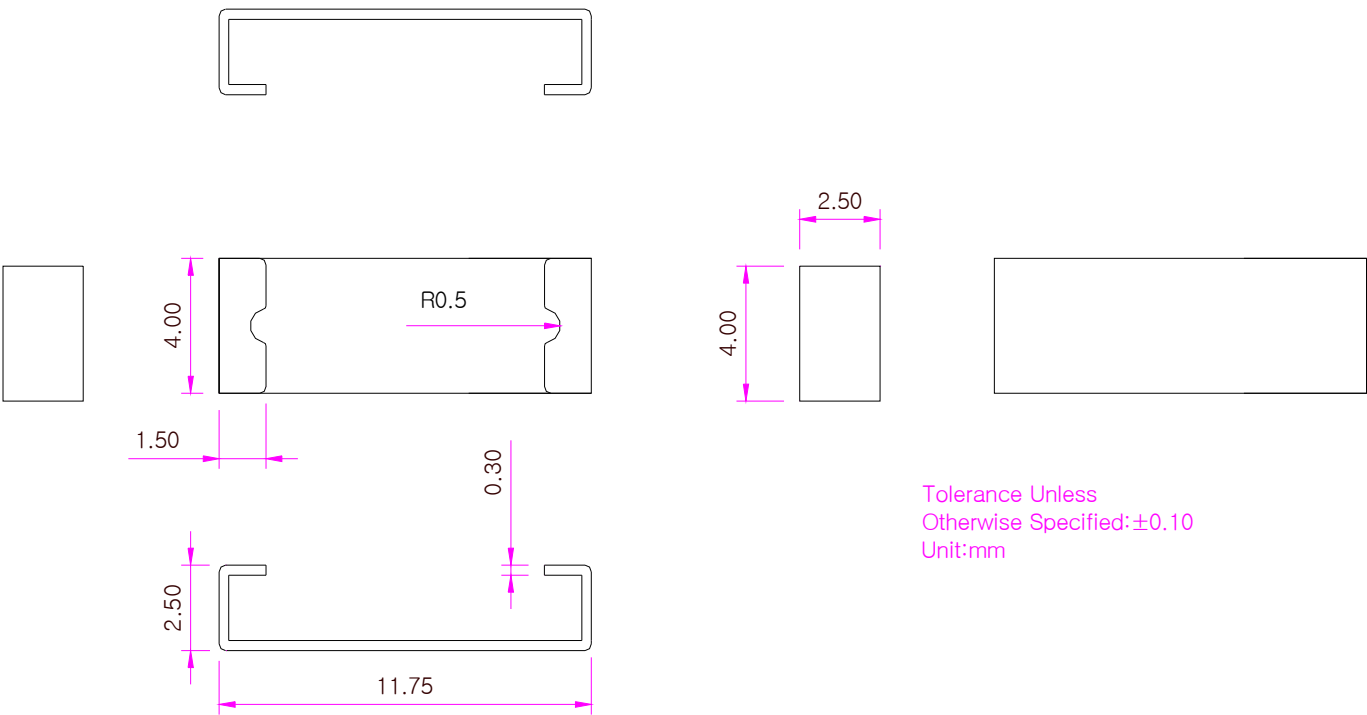
FAX : (044) 865-9229

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1. 외관 및 구조



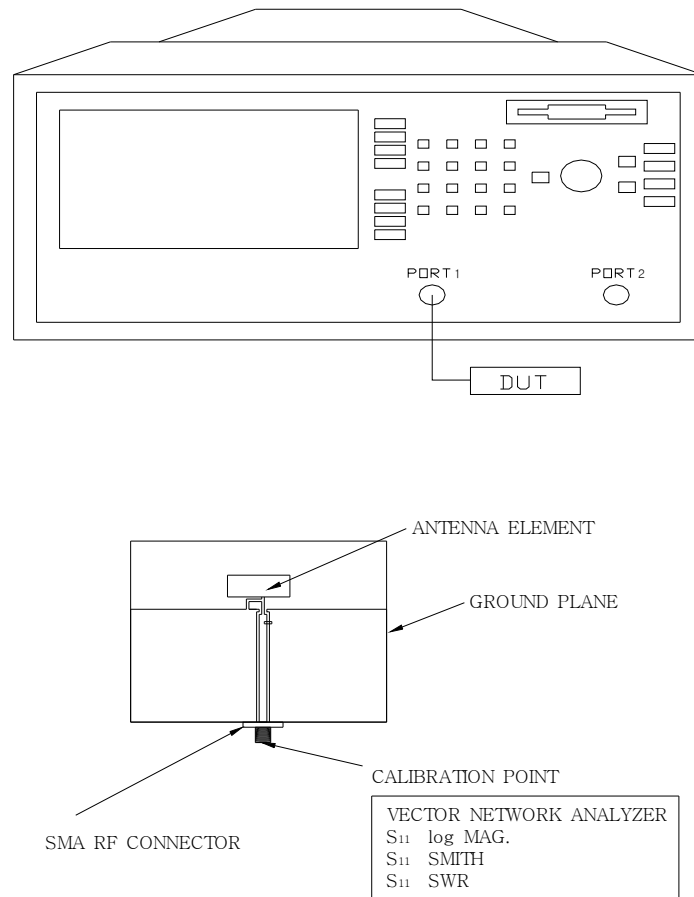
2. 시험절차서

2.1 시험 장비

2.1.1 장비명

NETWORK ANALYZER (HP 8753ES, ADVANTEST R3767CH 등..)

2.1.2 장비구성도



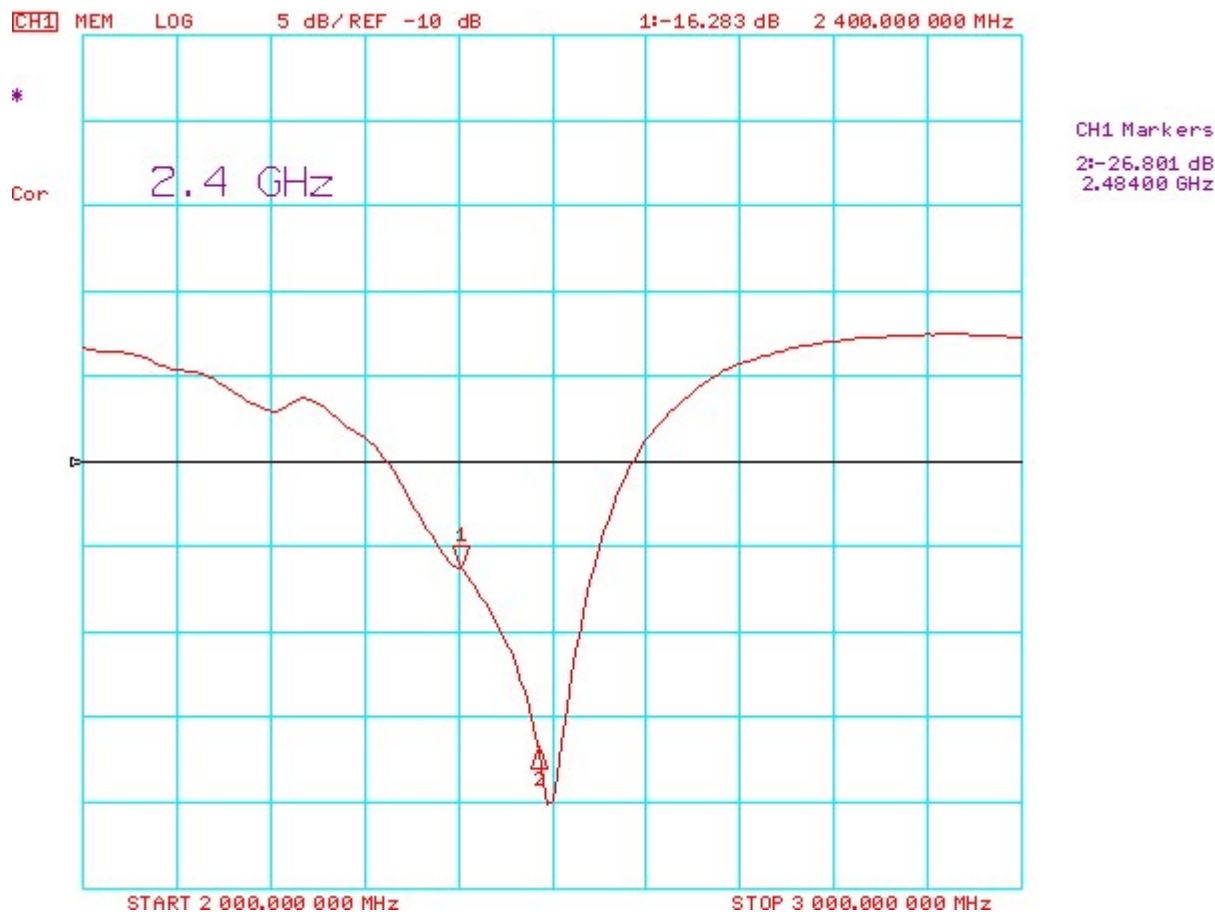
2.2 시험 방법

2.2.1 측정 장비 Setting

- 1) Network Analyzer에 Cable[N-TYPE(Male)Connector-SMA(Male)Connector]을 연결한다.
- 2) Network Analyzer의 각 Port와 Cable의 N-type(Male)Connector를 연결한다.
- 3) Span 1000MHz, Center 2450MHz, Number of point 801로 설정하고
1 PORT Full Calibration 을 수행한다.
- 4) Cable의 SMA(Male)Connector와 JIG를 연결한다.

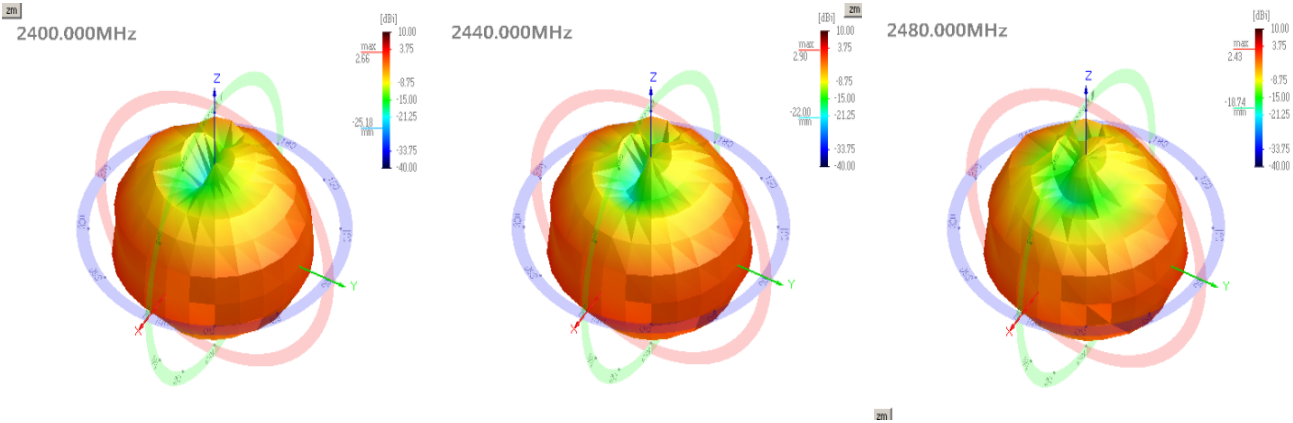
3.특성 DATA

3.1 Return Loss

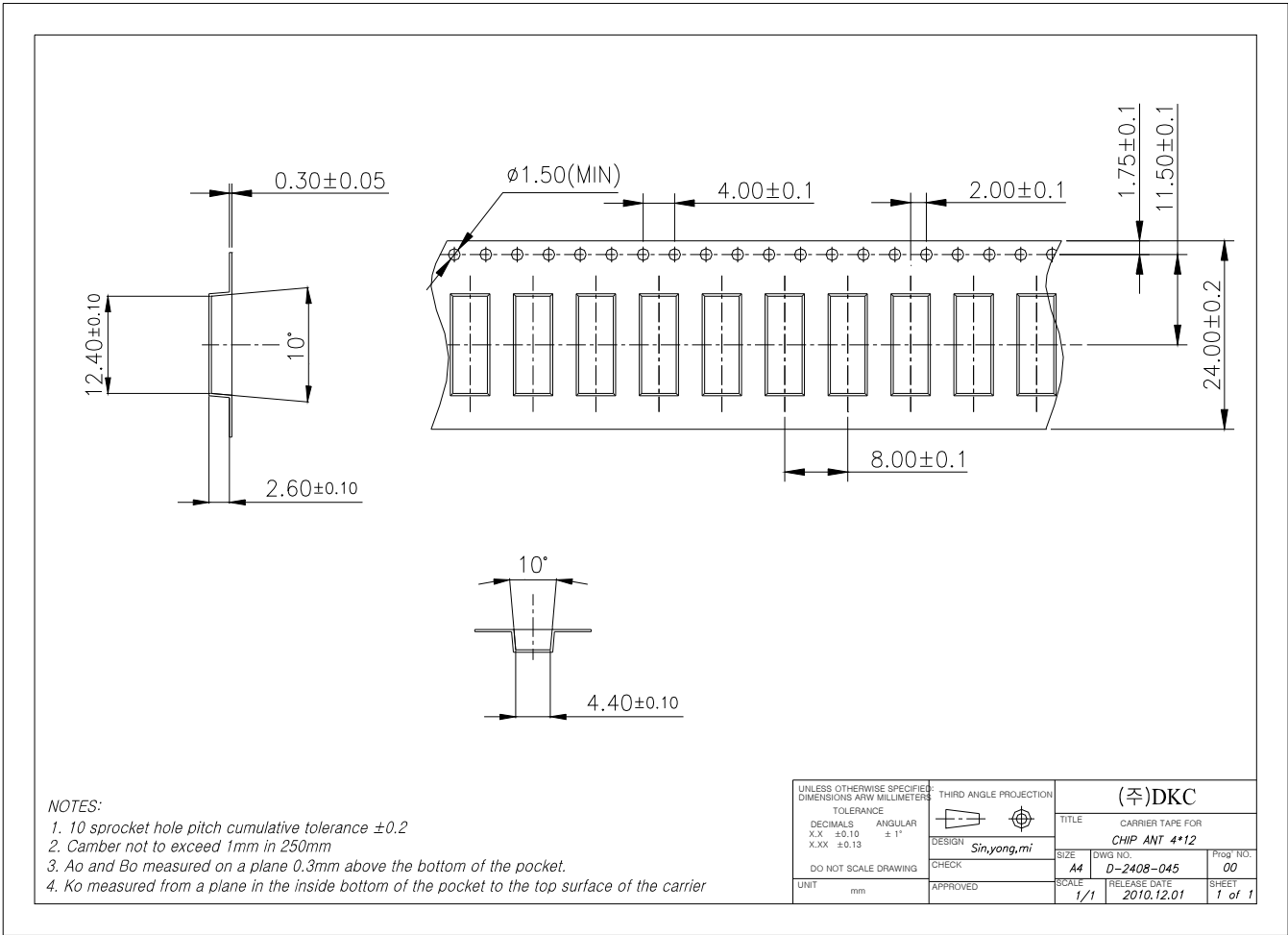
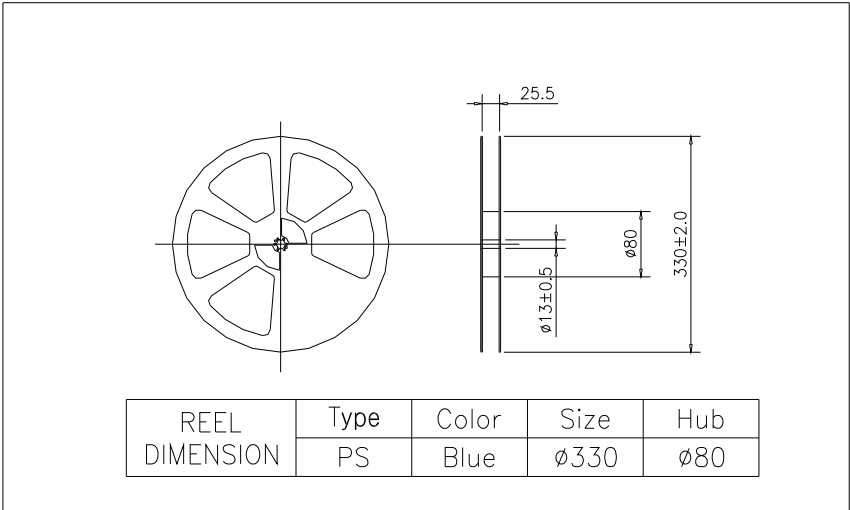


3.2 Antenna Chamber Data

Frequency	Efficiency	Average Gain			Max Gain		
		Ver	Hor	Total	Ver	Hor	Total
2400.000000 MHz	69.2 %	-13.4 dBi	-1.8 dBi	-1.6 dBi	-6.5 dBi	2.2 dBi	2.6 dBi
2410.000000 MHz	67.3 %	-13.7 dBi	-2.0 dBi	-1.7 dBi	-6.4 dBi	2.0 dBi	2.4 dBi
2420.000000 MHz	70.9 %	-13.4 dBi	-1.7 dBi	-1.4 dBi	-6.1 dBi	2.2 dBi	2.7 dBi
2430.000000 MHz	71.9 %	-13.4 dBi	-1.7 dBi	-1.4 dBi	-5.9 dBi	2.3 dBi	2.7 dBi
2440.000000 MHz	74.5 %	-13.1 dBi	-1.5 dBi	-1.2 dBi	-5.8 dBi	2.5 dBi	2.9 dBi
2450.000000 MHz	74.5 %	-12.9 dBi	-1.5 dBi	-1.2 dBi	-5.5 dBi	2.5 dBi	2.8 dBi
2460.000000 MHz	72.4 %	-12.8 dBi	-1.7 dBi	-1.4 dBi	-5.3 dBi	2.4 dBi	2.6 dBi
2470.000000 MHz	70.8 %	-12.5 dBi	-1.8 dBi	-1.5 dBi	-5.0 dBi	2.3 dBi	2.6 dBi
2480.000000 MHz	67.6 %	-12.3 dBi	-2.0 dBi	-1.7 dBi	-4.8 dBi	2.2 dBi	2.4 dBi



4. 포장 사양 (3000pcs/reel)



5. 출하 검사 성적서

Chip Antenna Final Inspection Report

Customer		Date		Lot No.	
Part Number	KSCA-B2450MA	Quantity		Measurement	V / C

단위:mm	DIMENSION					
	SPEC	W	L	H	D	T
	NO.	4.00±0.1	11.75±0.1	2.50±0.1	1.50±0.1	0.30±0.1
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
10						

SANGSHIN ELECOM			 SANGSHIN ELECOM CO., LTD	Customer		
Written by	Checked by	Approved by		Written by	Checked by	Approved by