

DIELECTRIC PATCH ANTENNA

CUSTOMER : ANYDATA

PART NO. : KSA-SP1575MS13

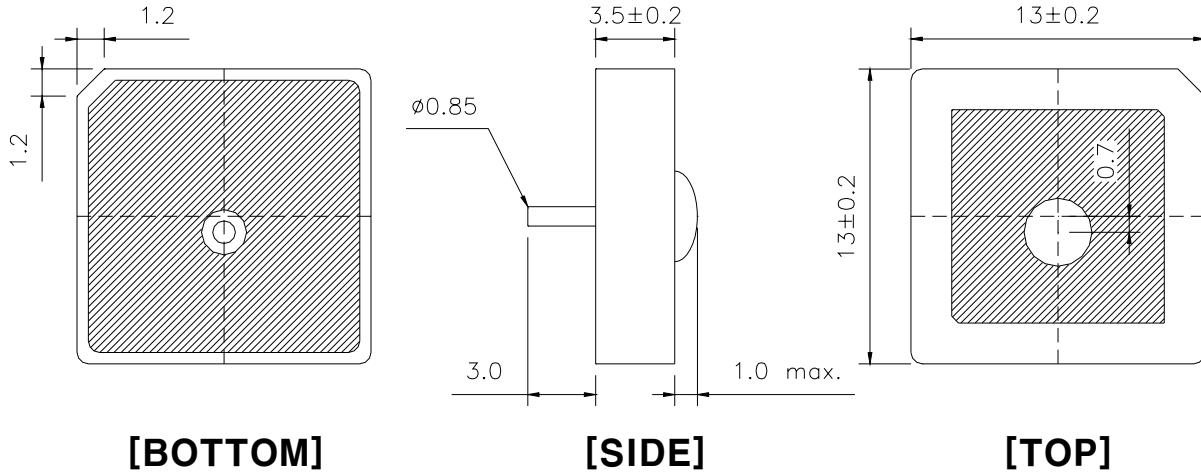
DATE : 2006. 06. 30.

Part No.	<u>KSA-SP</u> <u>1575M</u> <u>S13-T35</u> ① ② ③ ④ ⑤
①	SANGSHIN ANTENNA SERIES
②	SPECIAL TYPE
③	CENTER FREQUENCY [MHz]
④	PRODUCT SIZE [mm]
⑤	Dielectric Patch Thickness

KOREA SANGSHIN ELECTRIC CO.,LTD

CUSTOMER	한국안테나	SPECIFICATION	SPEC NO: R&D1-PA-0001
MANUFACTURE	K. S. E	DIELECTRIC PATCH ANT.	DATE : 2006. 06. 30.
SPECIFICATION CONTROL DRAWING	REVISIONS		
	NO.	DATE	DESCRIPTION

1. DIMENSION




Tolerance Unless
Otherwise Specified : ±0.1
Unit : mm

2. GENERAL ELECTRICAL SPECIFICATIONS

Output Impedance	50Ω
Operating Temperature Range	-40℃ to +85℃
Storage Temperature Range	-40℃ to +105℃

3. ELECTRICAL SPECIFICATIONS

Characteristics	Specification	Unit	Conditions
Center Frequency	1575 ± 2.0	MHz	SET ON MODULE
	1575 ± 2.0	MHz	SET ON MODULE
Bandwidth	5.0 min.	MHz	Return Loss ≤ -10dB
VSWR	2.0 max.		1573MHz~1577MHz
POLARIZATION	R.H.C.P		
Gain	0 typ.	dBi	50X50mm GND
Temp. Coefficient	0 ± 20	ppm/℃	-40℃ to +85℃ , 25℃ Ref.

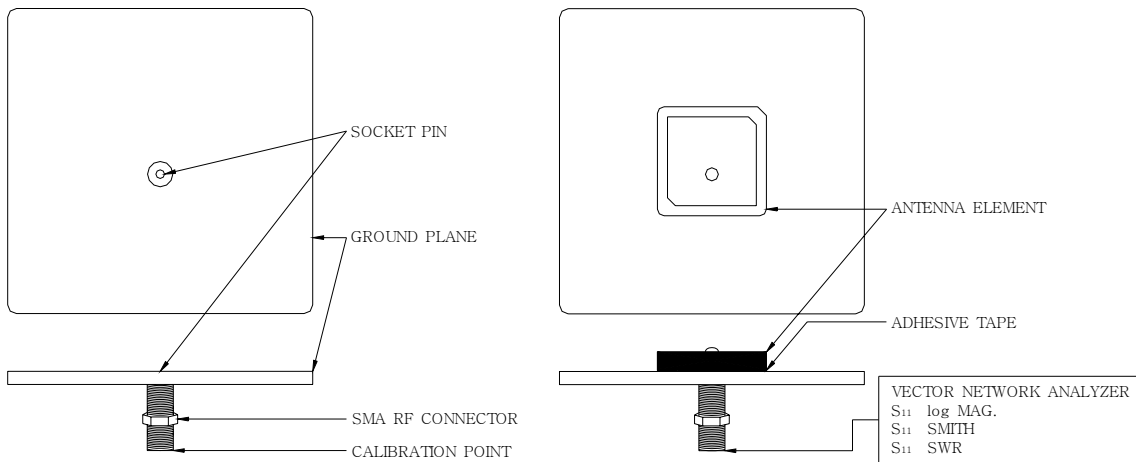
DRAWING	CHECKED	APPROVAL	 KOREA SANGSHIN ELECTRIC CO.,LTD SANGSHIN TITLE : DIELECTRIC PATCH ANTENNA PART NO. : KSA-ST1575MS13

CUSTOMER	한국안테나	SPECIFICATION	SPEC NO : R&D1-PA-0001
MANUFACTURE	K . S . E	DIELECTRIC PATCH ANT.	DATE : 2006. 06. 30.
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4. MECHANICAL CHARACTERISTICS


Characteristics	Specification	Conditions
Electrode	Silver	
Terminal Pin	Brass with silver coating	
Electrode Plating Adhesion (Peel Strength)	Min. 4 kg	10mm square at the corner

5. TEST FIXTURE AND ANTENNA SETUP & MEASUREMENT



NOTES :

1. Measured with 50x50mm ground plane without radome cover
2. Right hand circular polarized

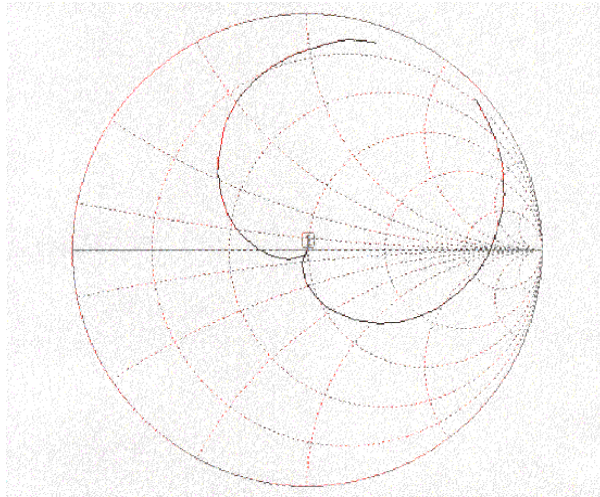
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6. GRAPH

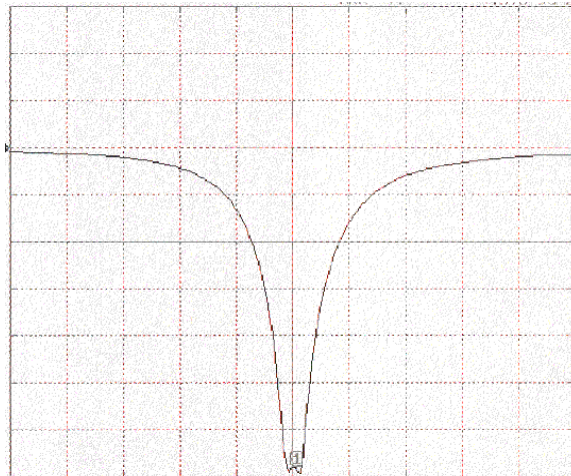
CH1 REL SMITH(R+jx) MKR 1 : 1.579 GHz
 FS 1.000 49.525Ω

Cor




CENTER 1.575 GHz [0.00dBm] SPAN 50 MHz

CH1 S11 log MAG. 5 dB / REF 0 dB 1 : -34.631 dB



CENTER 1.579 GHz

SPAN 50 MHz

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