SAW Filter 1575.42 MHz for GPS

MODEL NO.: **DSF1575.42-0406A** REV. NO.:2

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m
2.DC voltage: 5 V
3.Operating Temperature: -30°C to +85°C
4.Storage Temperature: -40°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency	**Fc**	(MHz)	-	1575.42	-
Insertion loss (1574.22~1576.62 MHz)	**IL**	(dB)	-	1.5	2.2
Amplitude ripple (1574.22~1576.62 MHz)		(dB)	-	0.1	1.0
Attenuation (Reference level from 0 dB)					
D.C. ~ 1400 MHz		(dB)	33.0	35.0	-
1400 ~ 1475 MHz		(dB)	35.0	42.0	-
1475 ~ 1525 MHz		(dB)	25.0	42.0	-
1625 ~ 1640 MHz		(dB)	30.0	53.0	-
1640 ~ 2000 MHz		(dB)	35.0	41.0	-
2000 ~ 3000 MHz		(dB)	25.0	36.0	-
VSWR (1574.22~1576.62 MHz)			-	1.15	2.0
Source impedance	Zs	(Ω)	-	50	-
Load impedance	Z_L	(Ω)	-	50	-

Note1. The standard definitions is in JIS C 6703

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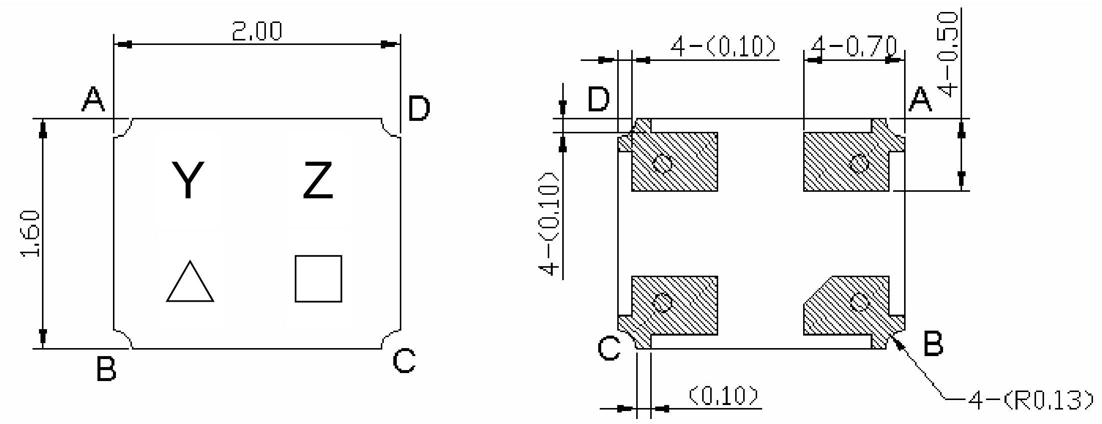
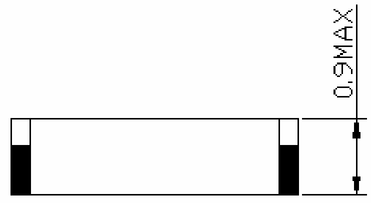
C. <u>OUTLINE DRAWING:</u>



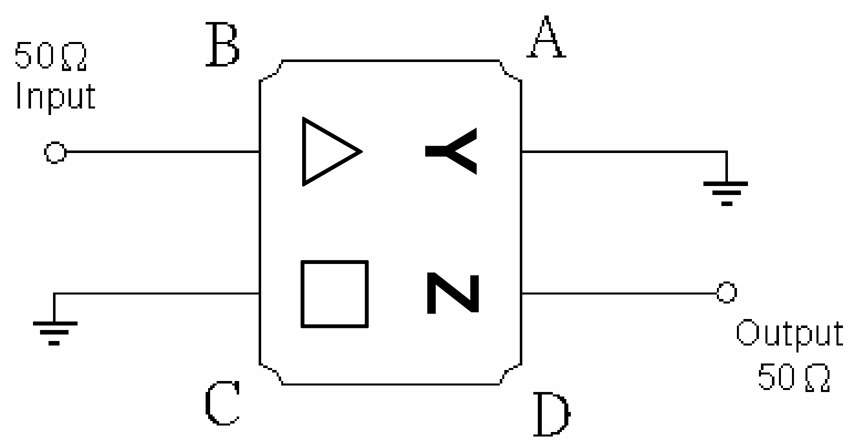


#B : Input
#D : Output
#A,C : Ground
Unit : mm

△ : Year Code (2006->6,…,2009->9)

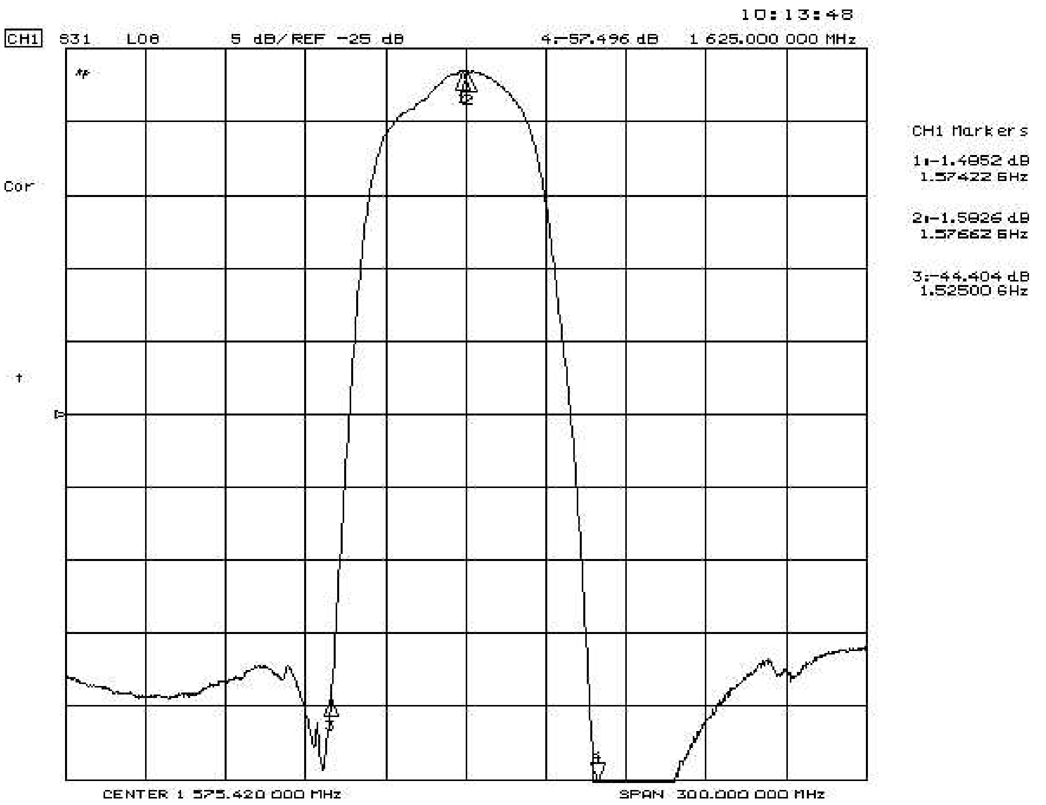
□ : Date Code (Follow the table from planner each year)

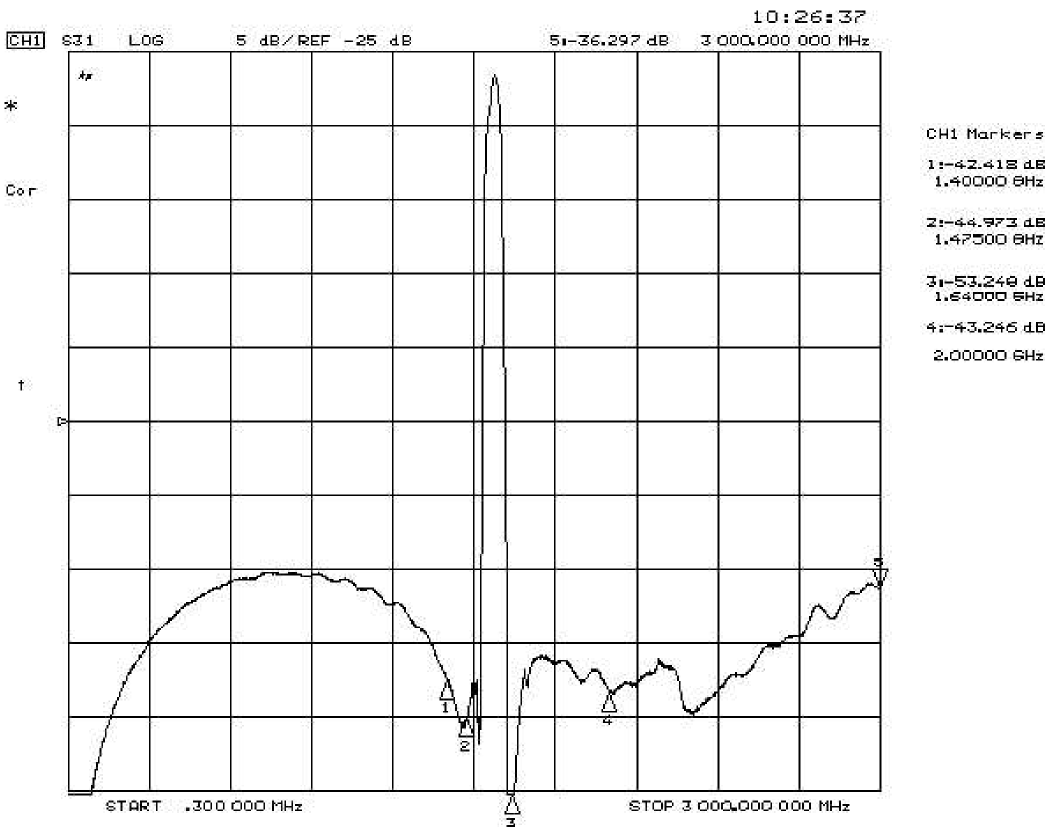
D. MEASUREMENT CIRCUIT:



E. Frequency Characteristics :

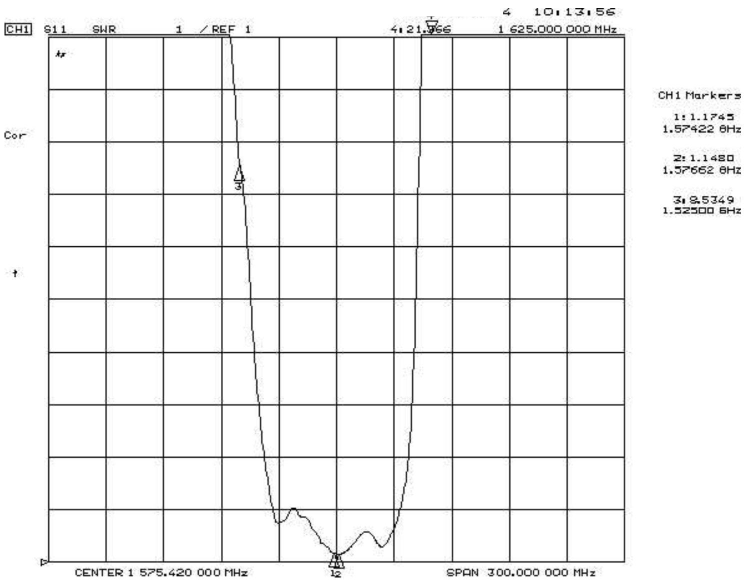
Transfer function

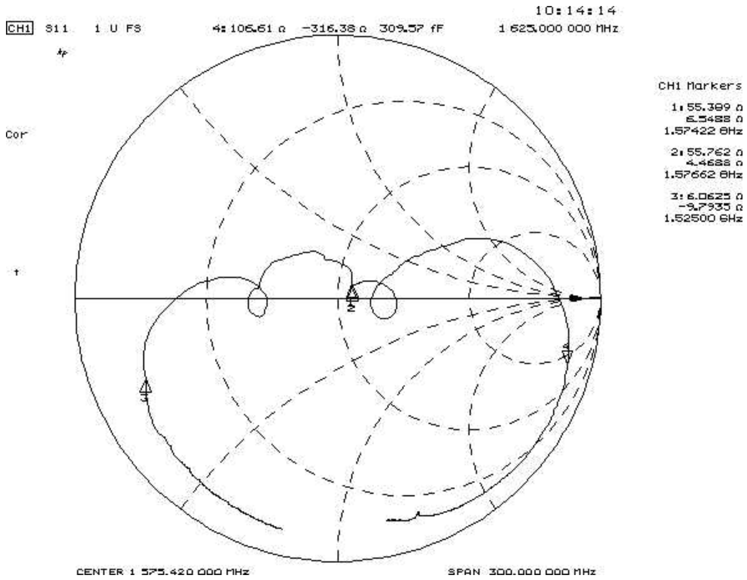




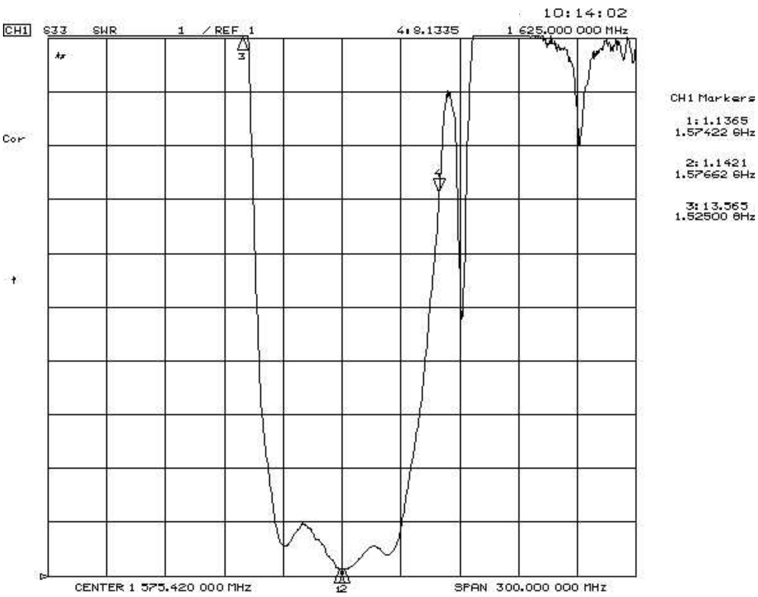
Reflections Functions :

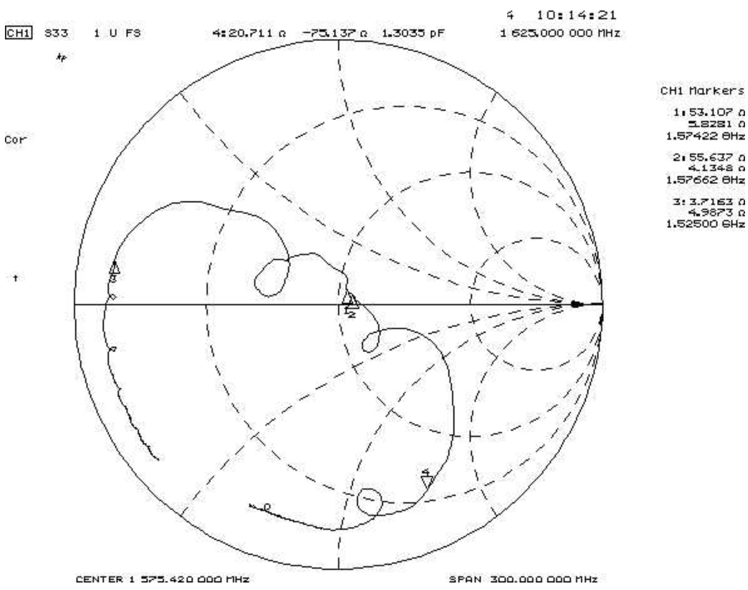
S11 VSWR





S22 VSWR

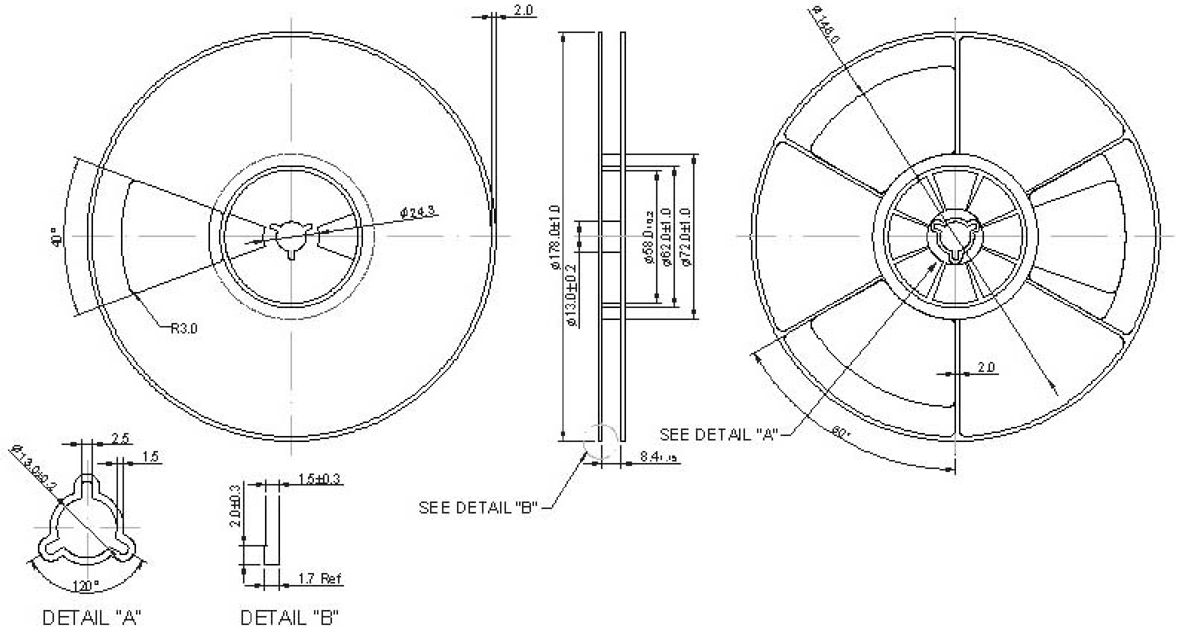




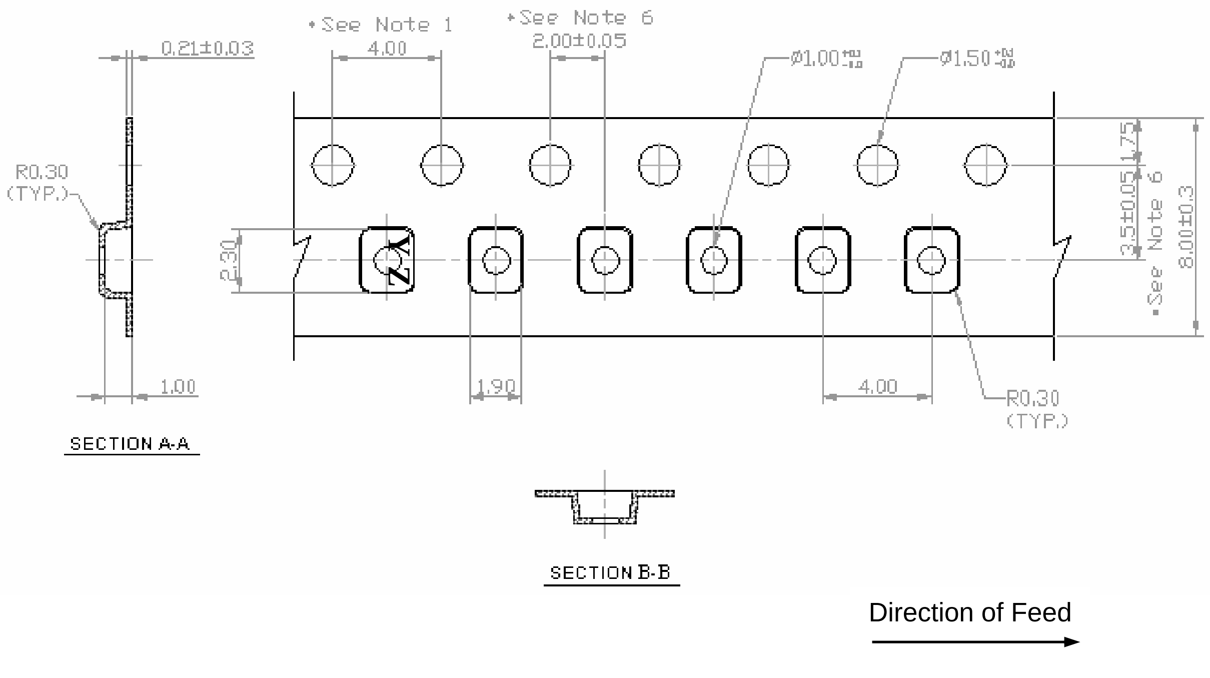
F. PACKING:

1. REEL DIMENSION

(Reel Count : 7”=2000 typ. ; 13”=10000 typ.)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :