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Approval Sheet For Product Specification

Issued Date:

Product Name: Dual SAW Filter 1842.5 and 1960 MHz SMD 3.0mm SQ

TST Parts No.: TE0104A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Paul Ni

Approval by: _____ Francis Chen

Date: _____ Sep. 28. 2006



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Dual SAW Filter 1842.5 and 1960 MHz

MODEL NO.: **TE0104A**

REV. NO.:2

A. MAXIMUM RATING:

1. Operating Temperature: -10°C ~ +80°C

2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics of PCN Rx :

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

Characteristics (PCN Rx)		Value			Note
		Min.	Typ.	Max.	
Center frequency	F_c MHz	-	1842.5	-	-
Insertion loss(1805~1880 MHz) I.L.	dB	-	2.5	4.0	-
Ripple (1805~1880 MHz)	dB	-	1.5	2.5	-
V.S.W.R (1805~1880 MHz)	dB	-	1.7	2.3	-
Attenuation:(Reference level from 0 dB)					
1) D.C. ~ 1705 MHz	dB	20	23.5	-	-
2) 1705 ~ 1785 MHz	dB	10	30	-	-
3) 1920 ~ 1980 MHz	dB	25	30	-	-
4) 1980 ~ 2500 MHz	dB	23	26	-	-
5) 2500 ~ 2800 MHz	dB	24	26	-	-
6) 2800 ~ 3700 MHz	dB	27	29	-	-
7) 3700 ~ 3840 MHz	dB	25	38	-	-
8) 3840 ~ 5000 MHz	dB	20	28	-	-
9) 5000 ~ 6000 MHz	dB	8	15	-	-
Max. Input Power (1805~1880 MHz)	dBm	13			

C. Characteristics of PCS Rx :

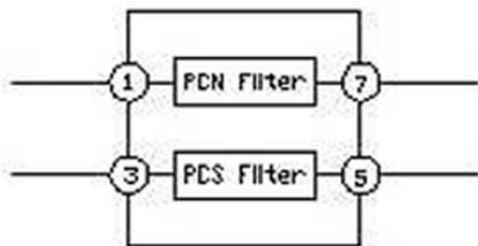
Terminating source impedance : $Z_s = 50 \ \Omega$

Terminating load impedance : $Z_L = 50 \ \Omega$

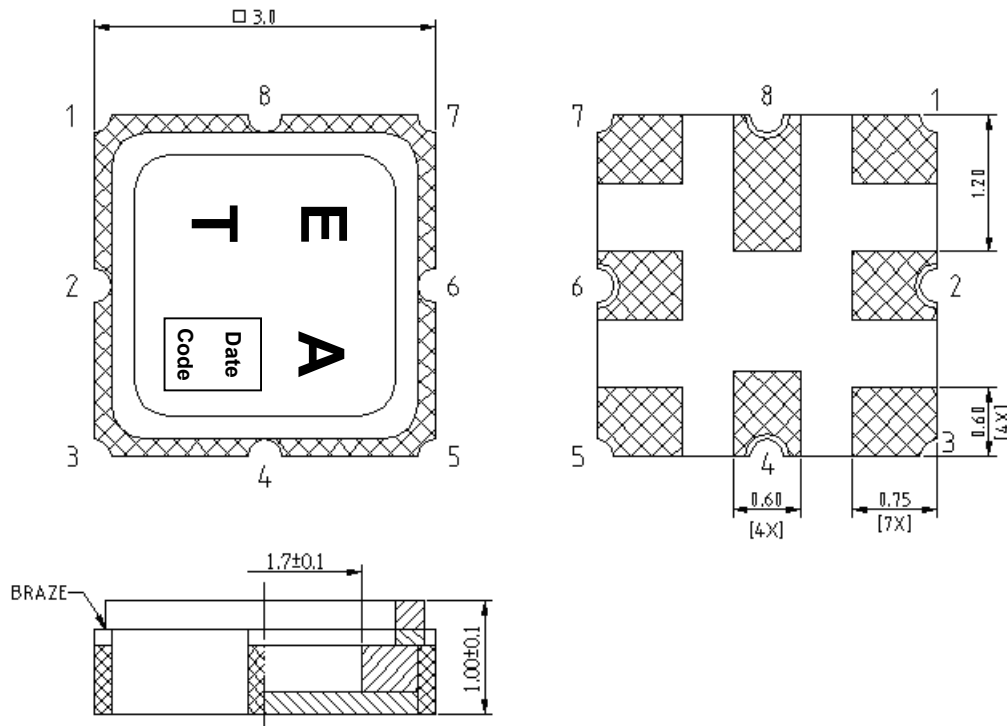
Characteristics (PCS Rx)			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_c	MHz	-	1960	-	-
Insertion loss(1930~1990 MHz) I.L.		dB	-	2.9	4.2	-
Ripple (1930~1990 MHz)		dB	-	1.4	2.5	-
V.S.W.R (1930~1990 MHz)		dB	-	1.9	2.4	-
Attenuation:(Reference level from 0 dB)						
1) D.C. ~ 1830 MHz		dB	20	30	-	-
2) 1830 ~ 1910 MHz		dB	8	21	-	-
3) 2010 ~ 2070 MHz		dB	6	12.5	-	-
4) 2070 ~ 3000 MHz		dB	21	33	-	-
5) 3000 ~ 4000 MHz		dB	22	30	-	-
6) 4000 ~ 5000 MHz		dB	20	27	-	-
7) 5000 ~ 6000 MHz		dB	7	14	-	-
Max. Input Power (1930~1990 MHz)		dBm	13			

D. Internal block diagram:

2 in / 2 out

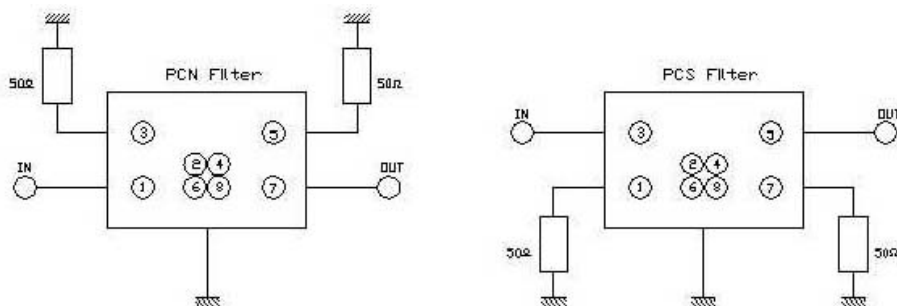


E. OUTLINE DRAWING:



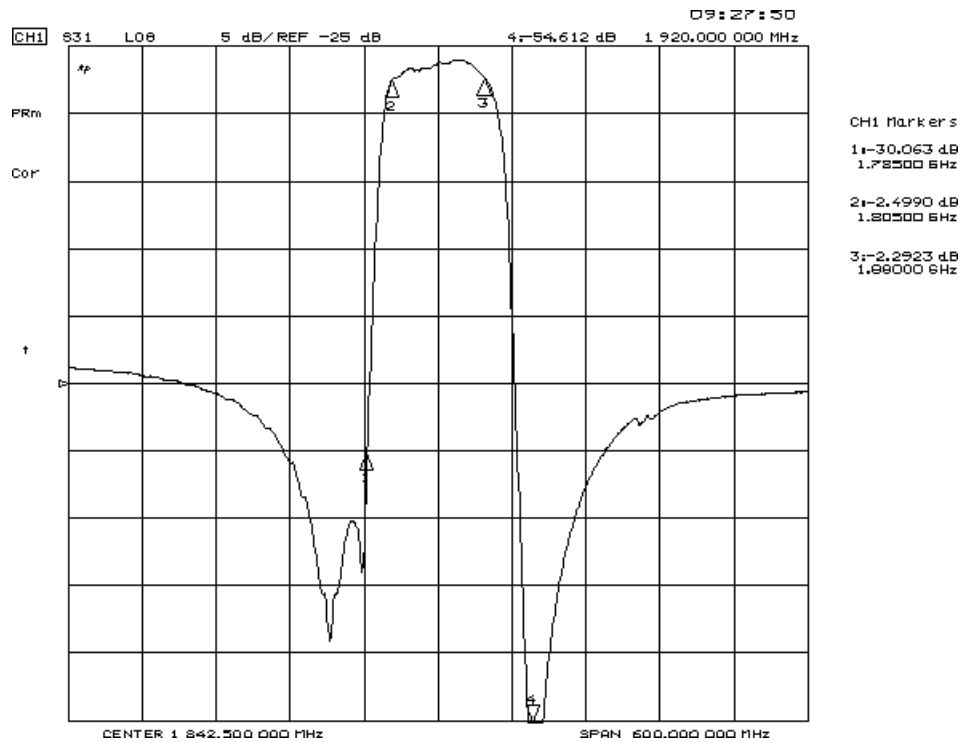
- 1 : PCN filter Input
- 7 : PCN filter Output
- 3 : PCS filter Input
- 5 : PCS filter Output
- 2,4,6,8 : GROUND

F. MEASUREMENT CIRCUIT:

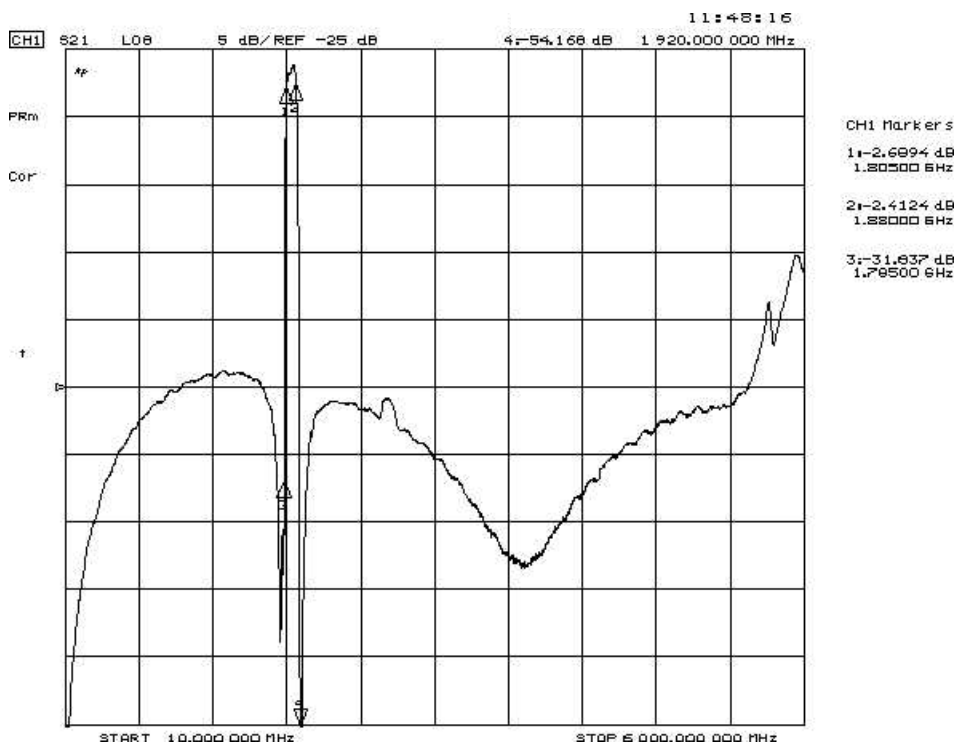


G. FREQUENCY CHARACTERISTICS:

1. Transfer function for PCN Rx : (25 °C)

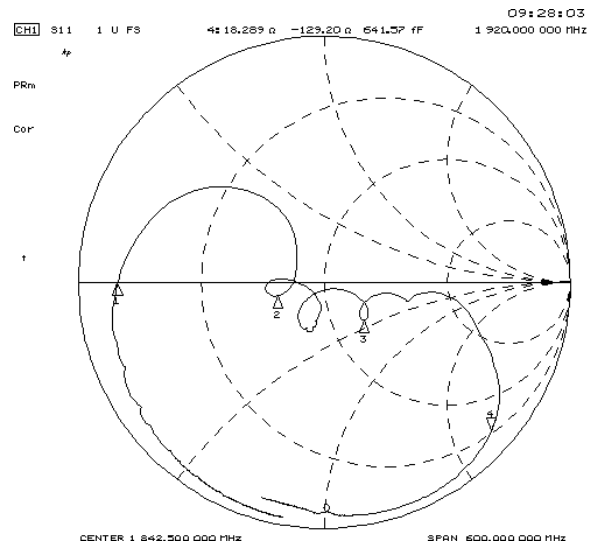
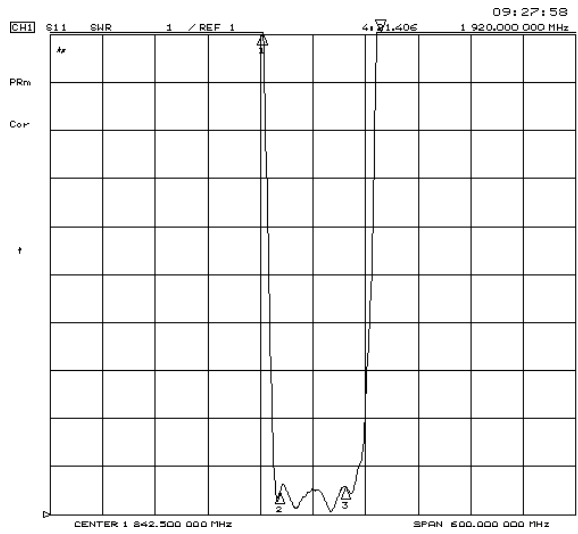


(wideband)

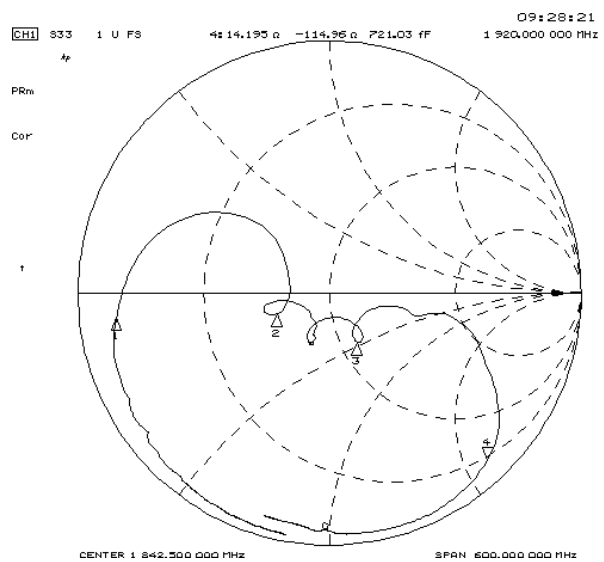
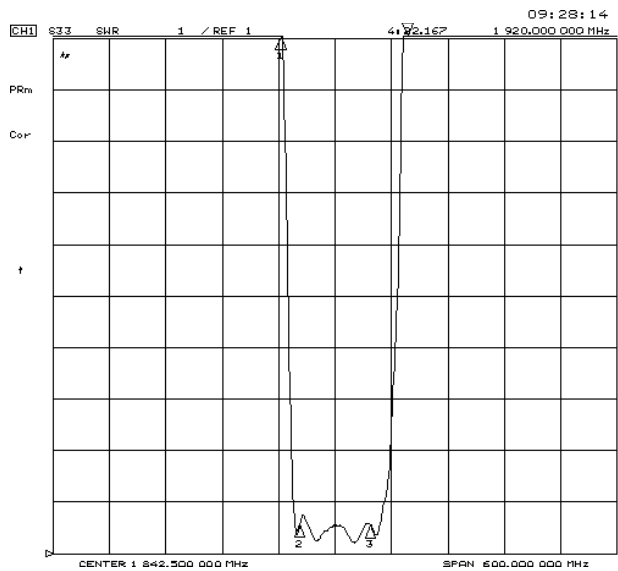


2. Reflection functions for PCN Rx :

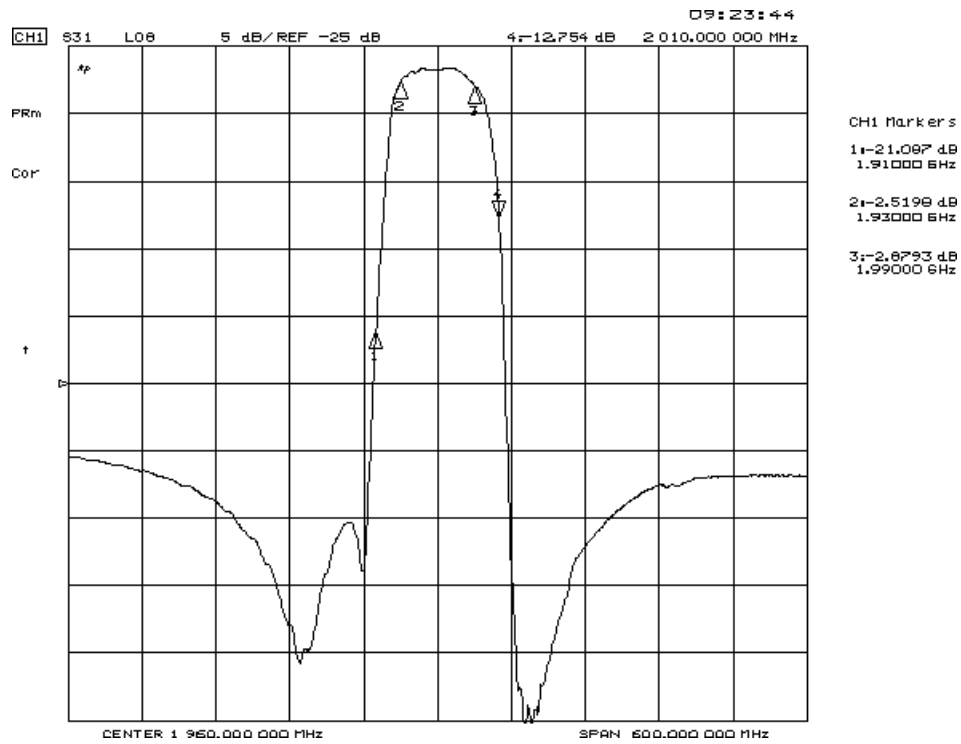
S11



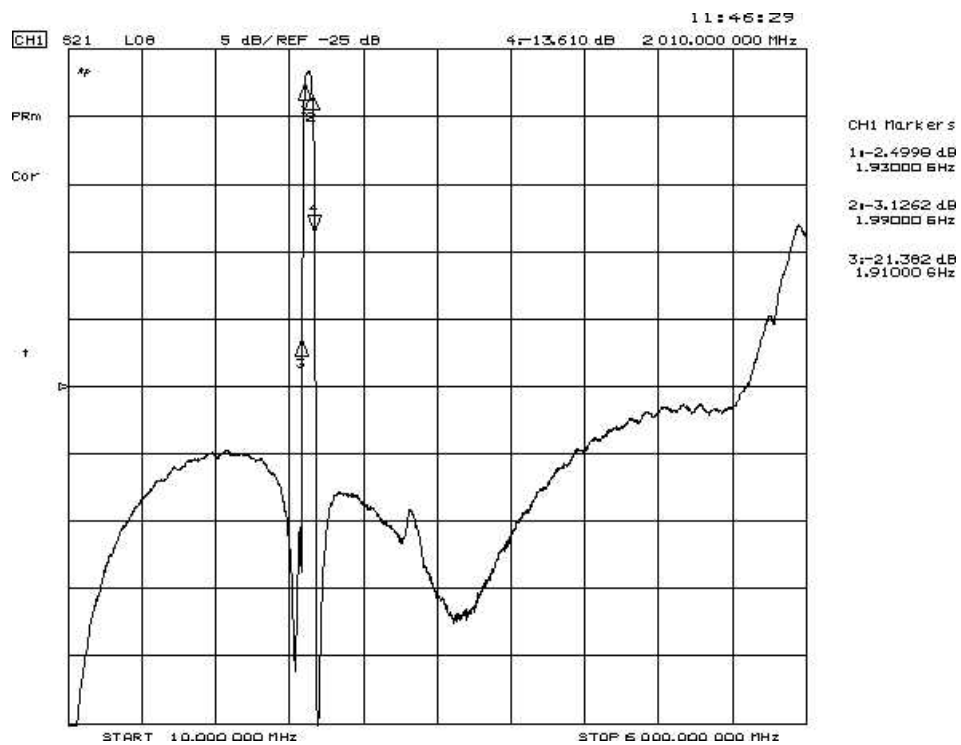
S22



3. Transfer function for PCS Rx : (25 °C)

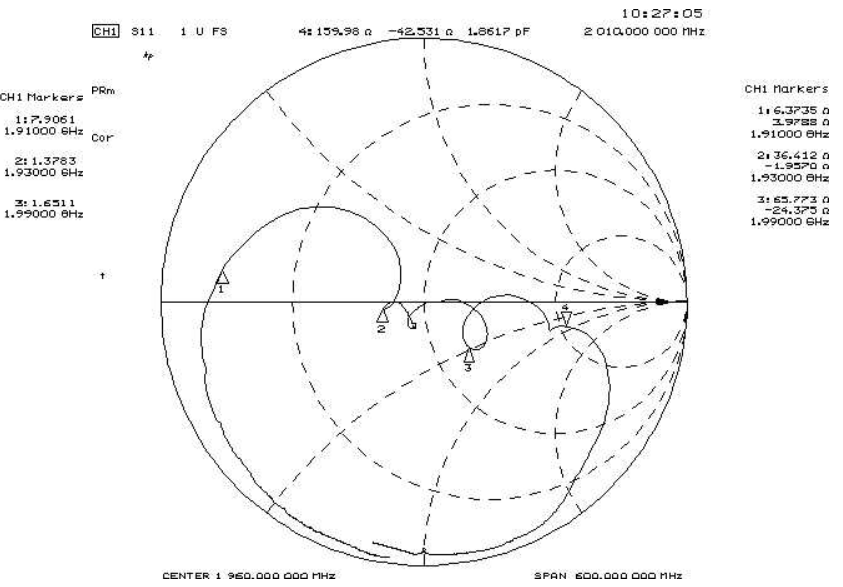
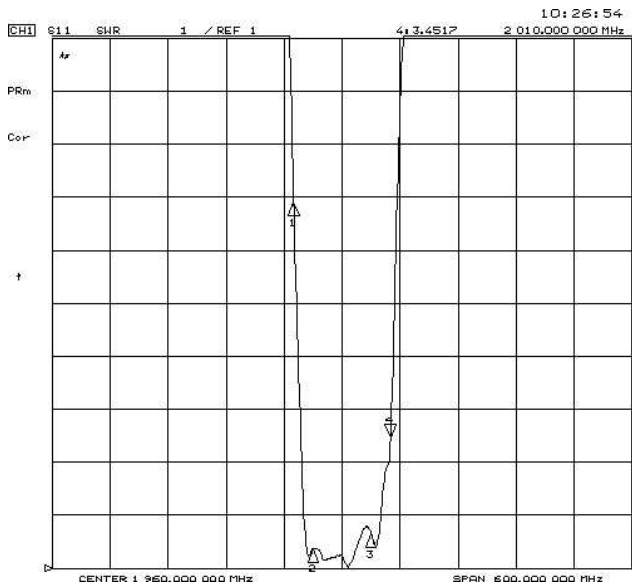


(wideband)

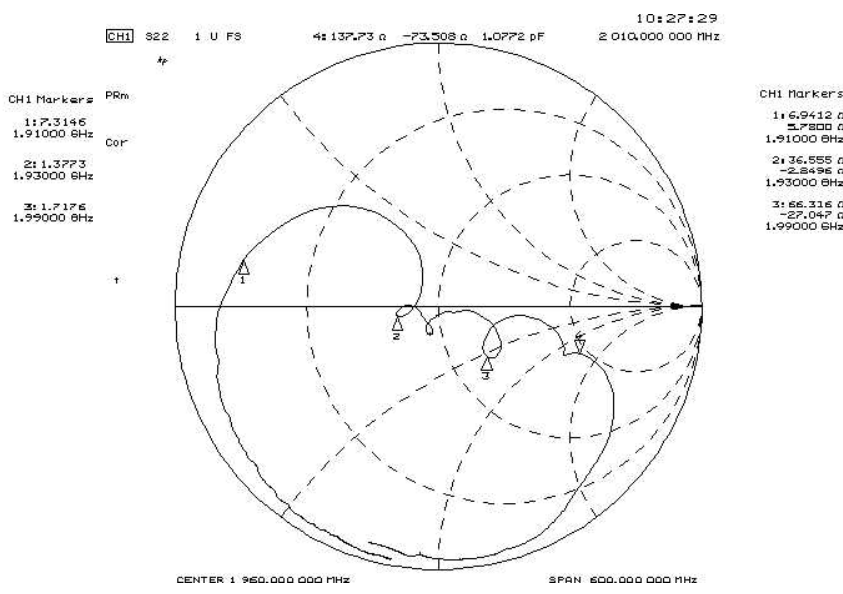
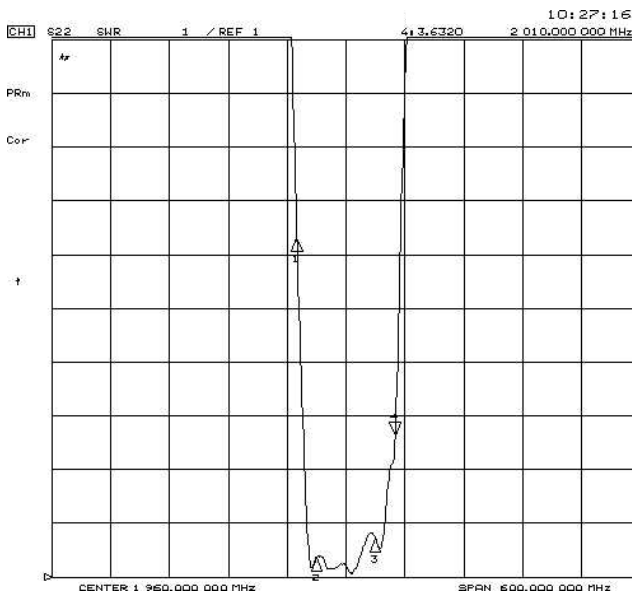


4. Reflection functions for PCS Rx :

S11

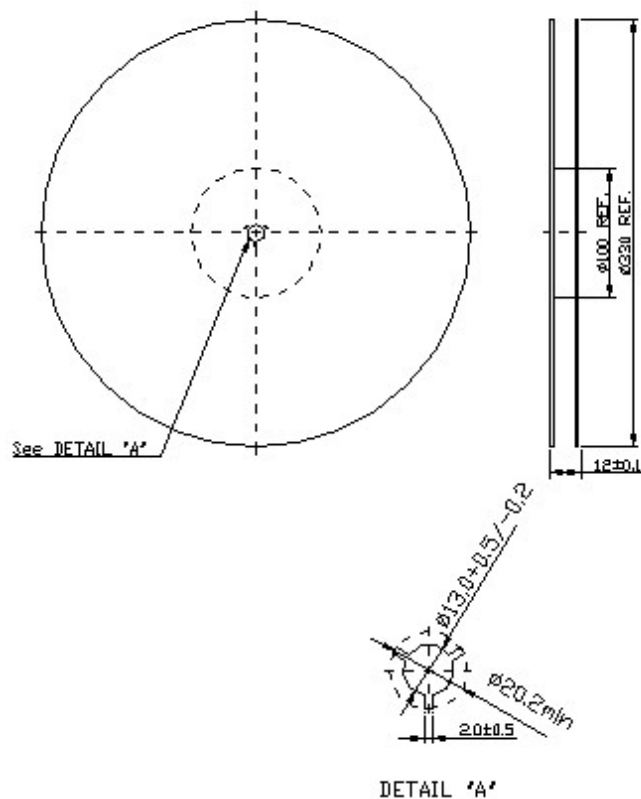


S22

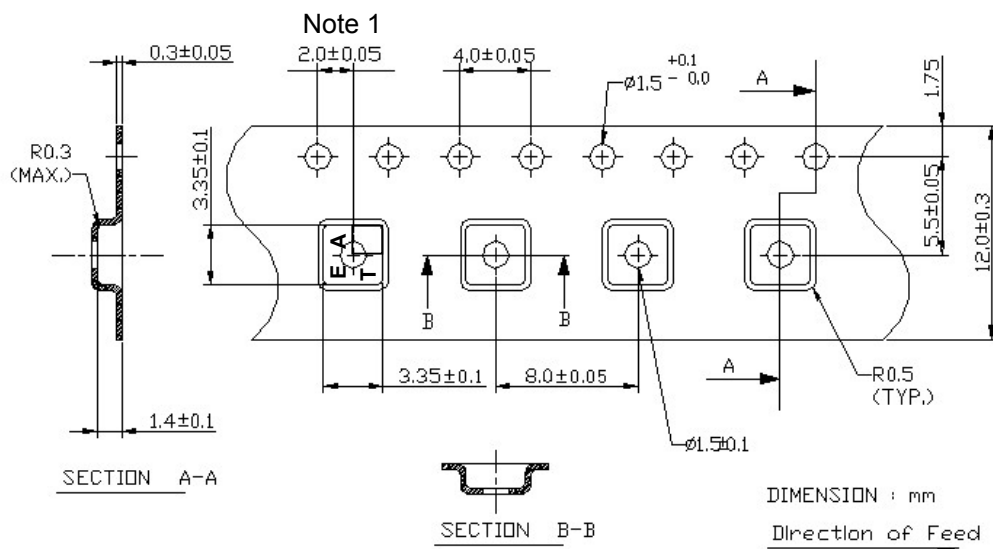


H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Note :

1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.