

To _____

No. A391-040403N-01

Date 3rd Apr. '04

Type No.
PRAC5

Data Sheet

PCS1900 Rx SAW Filter	
Application	: Rx Filter for PCS1900
Center Frequency	: 1960MHz
Size	: 2.0x1.4mm, 5pin-layout
Impedance	: 50-150ohms unbalance-balance
Part No.	: EFCH1960TCA1

Issued *S. Tsuzuki*
Check *K. Nishimura*

CIRCUIT COMPONENTS BUSINESS UNIT
MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD
KADOMA, OSAKA, JAPAN

PCS1900 Rx SAW Filter

----- Unbalanced input and balanced output -----

Part No. :

Design No. : T1960XF8

Parameter		Frequency	Your request			Our preliminary spec.			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Passband			1930 ... 1990			1930 ... 1990			MHz
Insertion loss		1930 ... 1990MHz					1.5	2.3	dB
Ripple in passband		1930 ... 1990MHz					0.3	1.5	dB
Amplitude imbalance		1930 ... 1990MHz				-1.5	-0.7 +0.4	+1.5	dB
Phase imbalance		1930 ... 1990MHz				-10	-1 +2	+10	deg.
Attenuation	Att1	DC ... 1830MHz				30	40		dB
	Att2	1830 ... 1910MHz (T=+15 ... +60 deg.C)				12	16		dB
		1830 ... 1910MHz (T=-10 ... +80 deg.C)				10			dB
	Att3	2010 ... 2070MHz (T=+15 ... +60 deg.C)				12	16		dB
		2010 ... 2070MHz (T=-10 ... +80 deg.C)				10			dB
	Att4	2070 ... 2500MHz				20	22		dB
	Att5	2500 ... 4000MHz				25	31		dB
	Att6	4000 ... 6000MHz				20	48		dB
VSWR	Input	1930 ... 1990MHz					2.1	2.4	
	Output	1930 ... 1990MHz					2.1	2.4	
Input impedance (Single Ended)						50			Ohm
Output impedance (Differential)						150 // 22 nH			Ohm
Maximum drive level								13	dBm
Operating temperature						-10		+80	deg. C
Storage temperature						-40		+85	deg. C

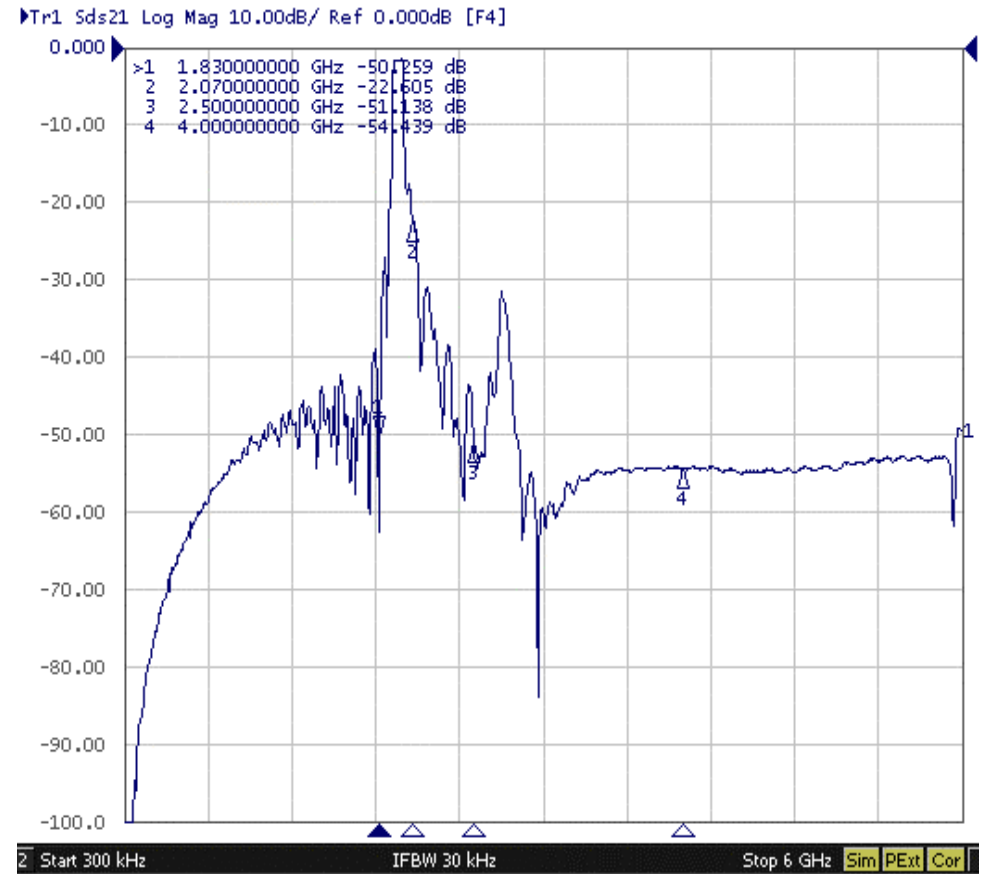
PCS1900 Rx SAW Filter

----- Unbalanced input and balanced output -----

Part No. :

Design No. : T1960XF8

Jig Loss = 0.3dB

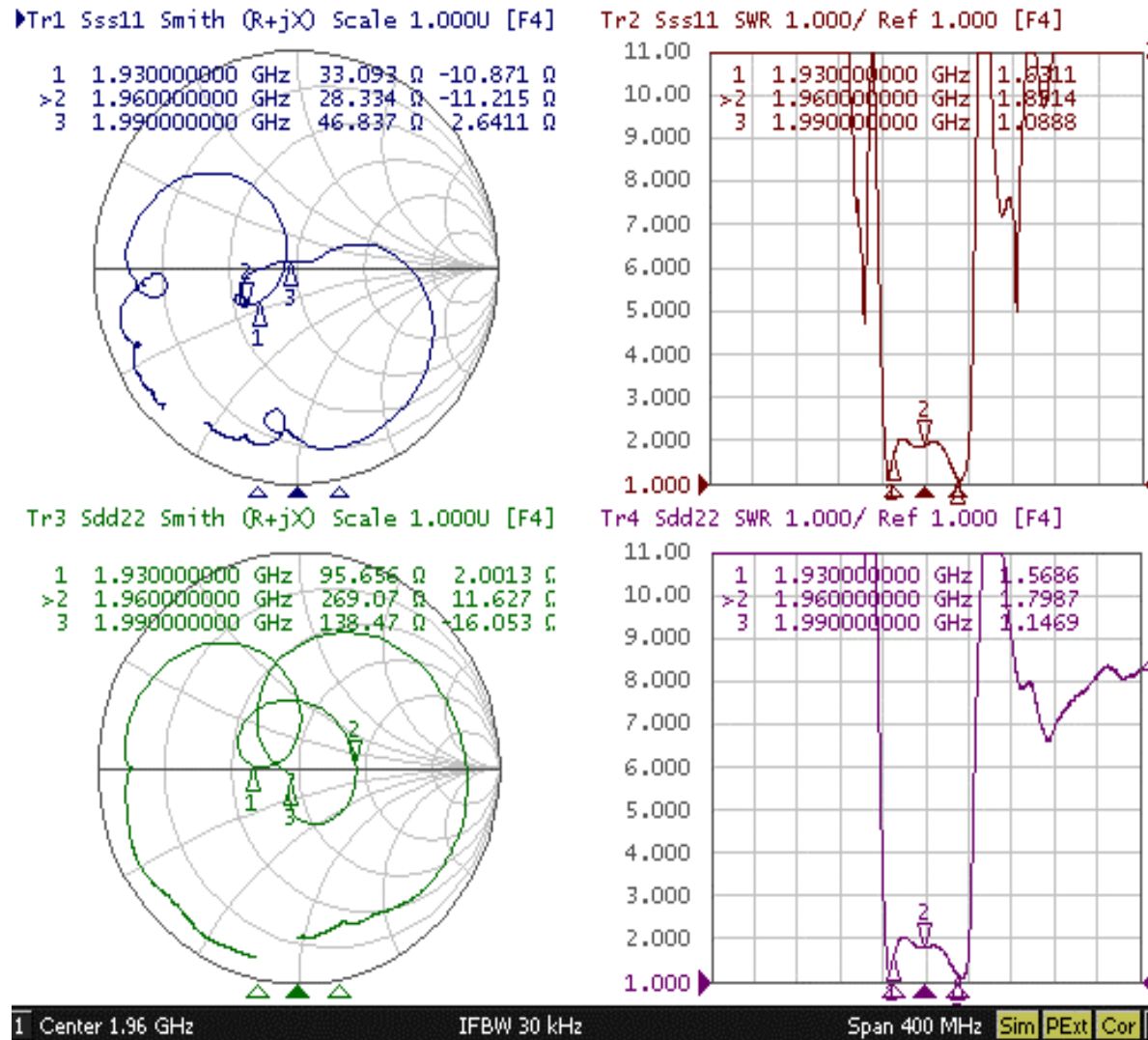


PCS1900 Rx SAW Filter

----- Unbalanced input and balanced output -----

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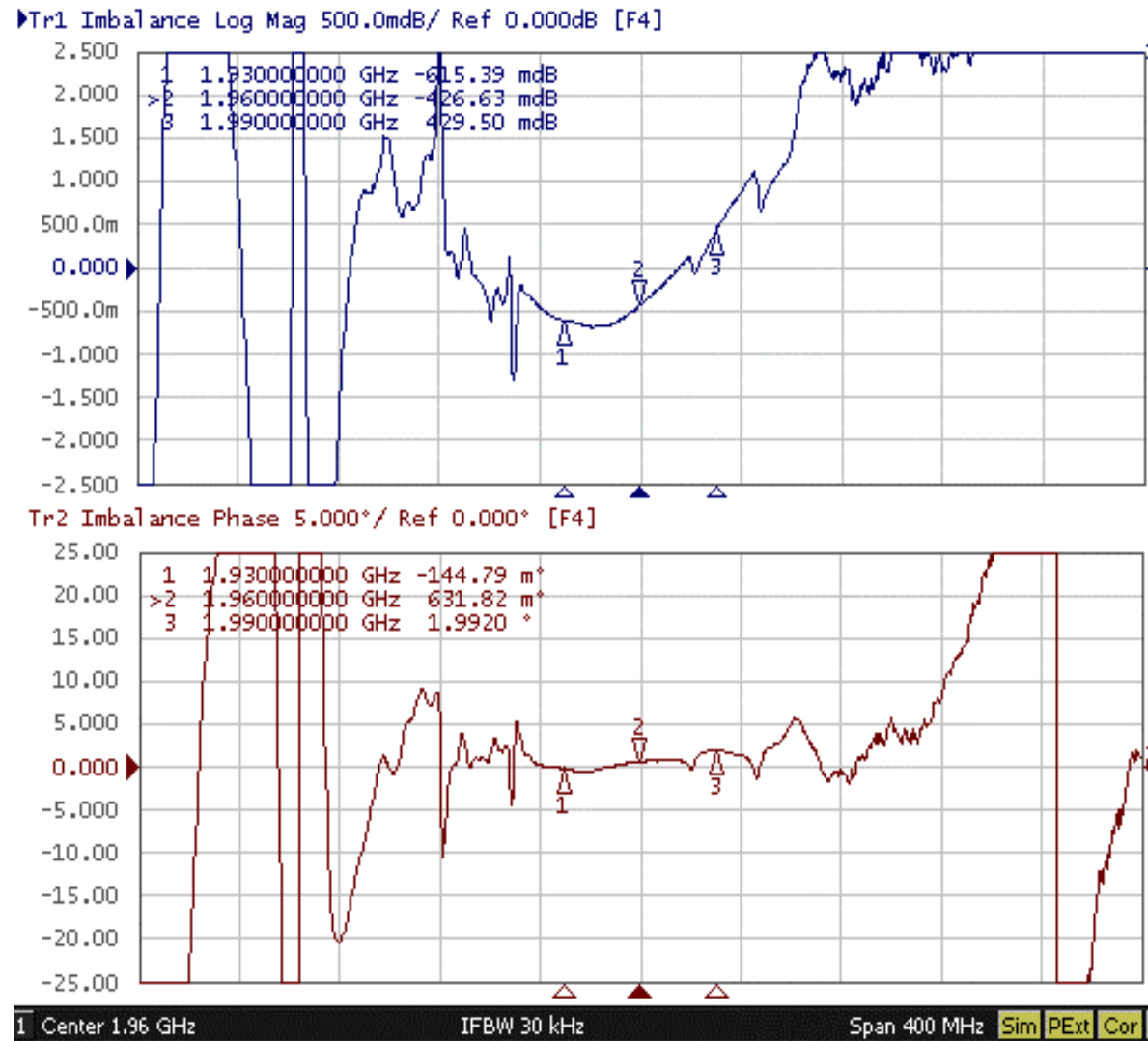


PCS1900 Rx SAW Filter

----- Unbalanced input and balanced output -----

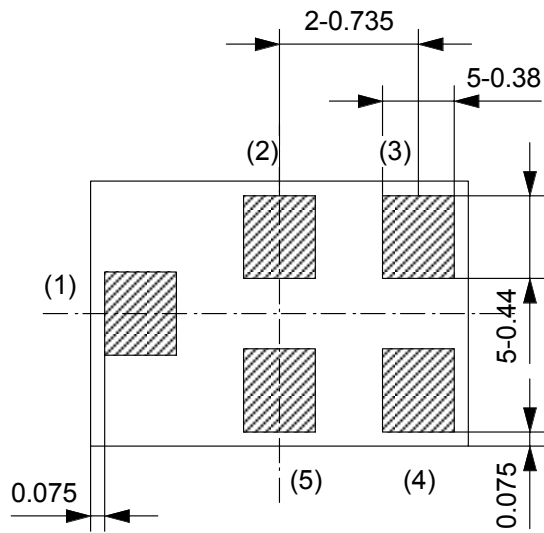
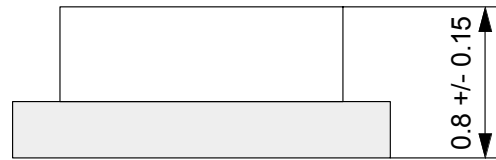
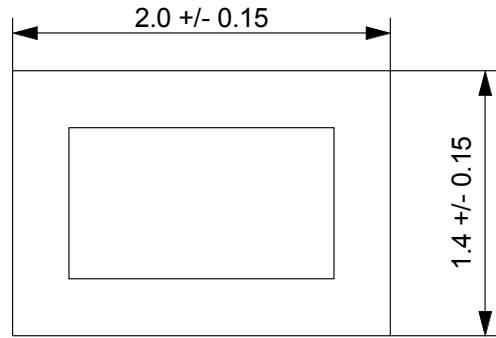
Part No. :

Design No. : T1960XF8



THIRD ANGLE PROJECTION

Tolerance : +/-0.05



- (1) Input
- (2) GND
- (3) Output
- (4) Output
- (5) GND

Note :
The design manufacturing process,
and Specification of this device
are subject to change without
notice.

UNLESS OTHERWISE SPECIFIED

BASIC DIMENSIONS		TOLERANCE
UP TO	INCL	
TO	INCL	
TO	INCL	
TO	INCL	
ABOVE		

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ISSUE	REVISIONS	DATE
MATERIAL	FINISH	SCALE
DESIGN		
DRAW		
CHECK		
APPROVAL		
DRAWING NO.		

NAME	TYPE NO.
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SAW Filter

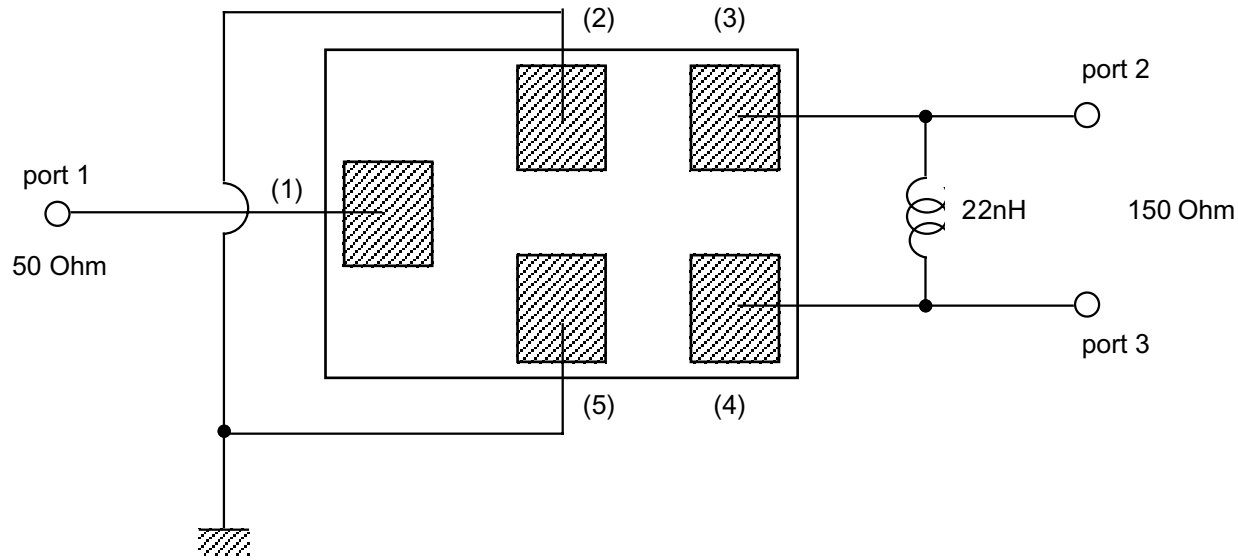
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REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

Measurement Circuit



Input impedance : 50 Ohm (Single ended)
 Output impedance : 150 Ohm (Differential)

UNLESS OTHERWISE SPECIFIED		
BASIC DIMENSIONS		TOLERANCE
UP TO	INCL	
TO	INCL	
TO	INCL	
TO	INCL	
ABOVE		

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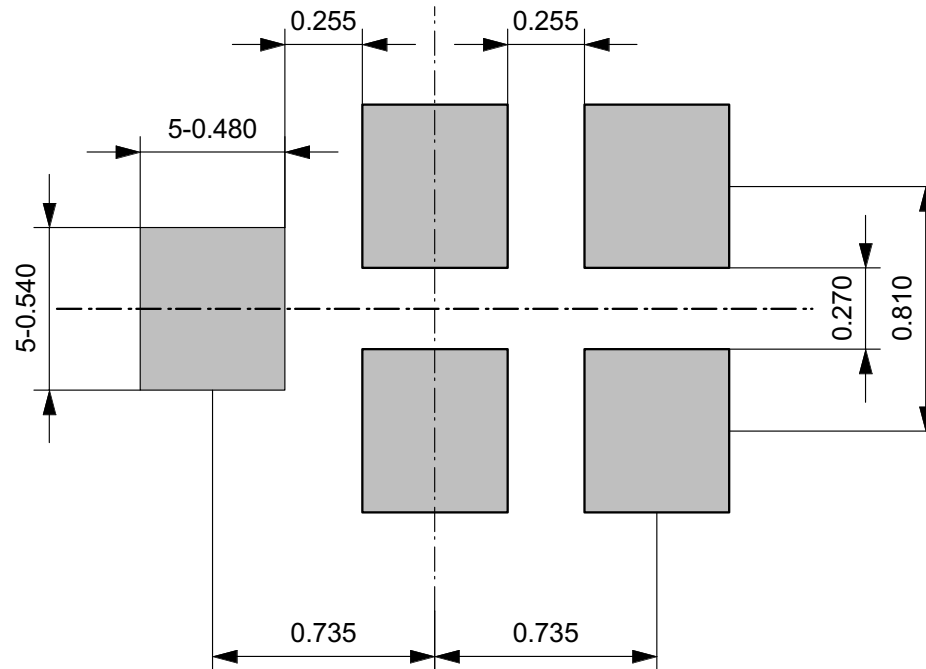
Fig. 2

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

Recommended land pattern

BASIC DIMENSIONS		TOLERANCE
UP TO	INCL	
TO	INCL	
TO	INCL	
TO	INCL	
ABOVE		



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