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Panasonic

To

No. A287-040403N-01

Date 3rd Apr. '04

Type No.
WRAB2-Z2

Data Sheet

WCDMA Rx SAW Filter

Application	: Rx Filter for WCDMA
Center Frequency	: 2140MHz
Size	: 2.0x1.4mm, 5pin-layout
Impedance	: 50-100ohms unbalance-balance
Part No.	: EFCH2140TCA1

Issued S. Tsuzuki

Check K. Nishimura

CIRCUIT COMPONENTS BUSINESS UNIT

MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD

KADOMA, OSAKA, JAPAN

2003.8.29

WCDMA Rx SAW Filter

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

Part No. :

Design No. : T2140D4

Parameter		Frequency	Your request			Our preliminary spec.			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Passband			2110 ... 2170			2110 ... 2170			MHz
Insertion loss		2110 ... 2170MHz					1.8	2.5	dB
Ripple in passband		2110 ... 2170MHz					0.3	1.2	dB
Amplitude imbalance		2110 ... 2170MHz				-1.5	-0.8 +0.4	+1.5	dB
Phase imbalance		2110 ... 2170MHz				-10	-2 +2	+10	deg.
Attenuation	Att1	DC ... 1980MHz				35	40		dB
	Att2	1980 ... 2050MHz				20	27		dB
	Att3	2250 ... 6000MHz				20	26		dB
VSWR	Input	2110 ... 2170MHz					1.7	2.2	
	Output	2110 ... 2170MHz					1.5	2.0	
Input impedance (Single ended)						50			Ohm
Output impedance (Differential)						100 // 5.6 nH			Ohm
Maximum drive level								13	dBm
Operating temperature						-30		+80	deg. C
Storage temperature						-40		+85	deg. C

2003.8.29

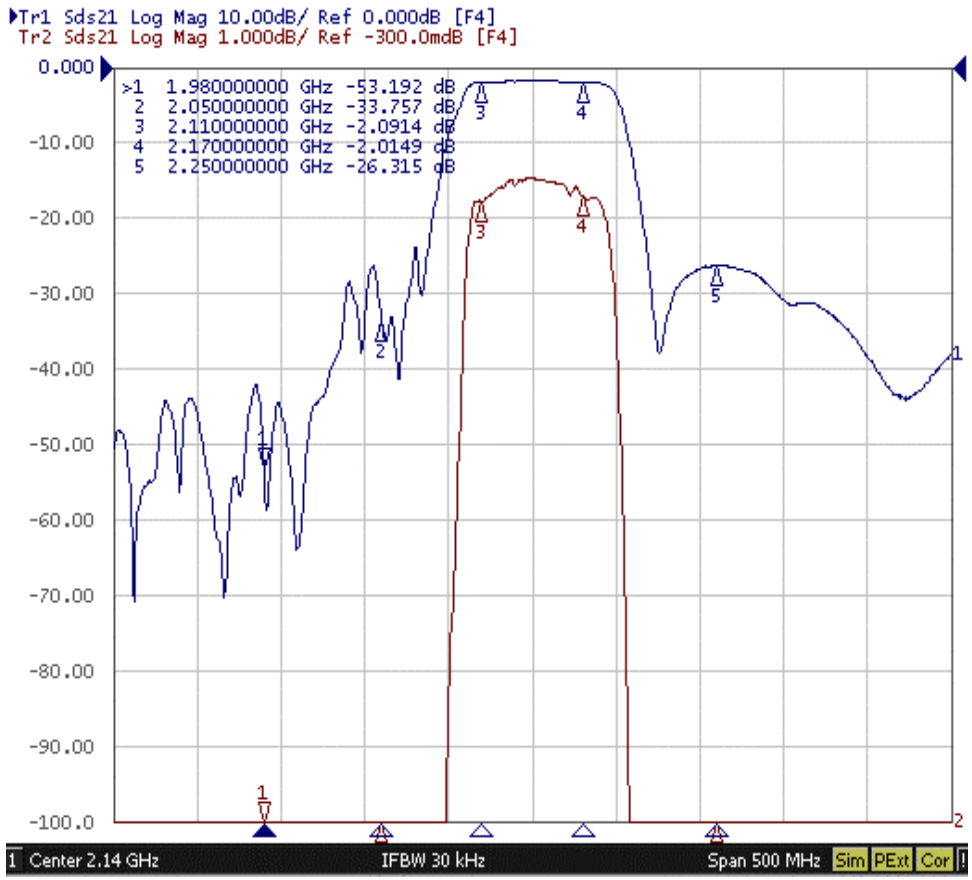
WCDMA Rx SAW Filter

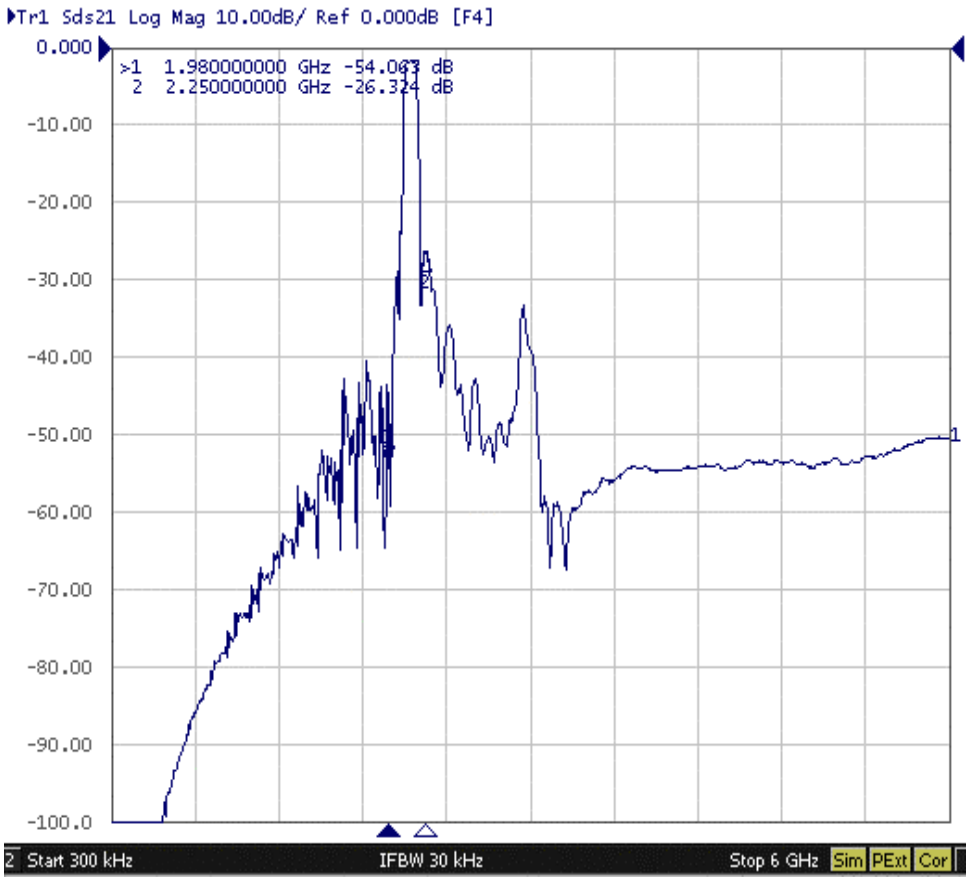
----- Unbalanced input and balanced output -----

Part No. :

Design No. : T2140D4

Jig Loss = 0.3dB





Panasonic

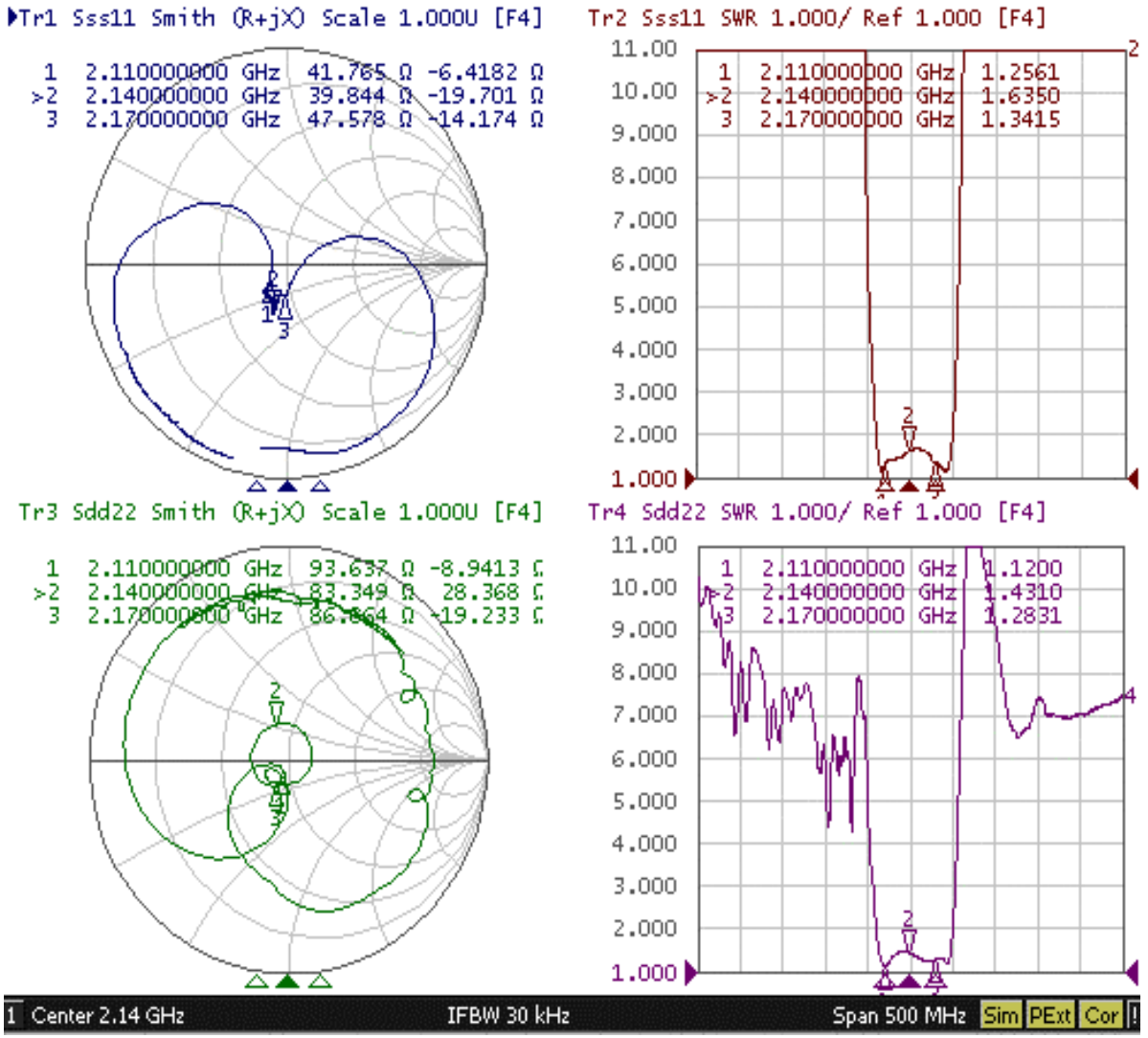
2003.8.29

WCDMA Rx SAW Filter

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

Part No. :

Design No. : T2140D4



Panasonic

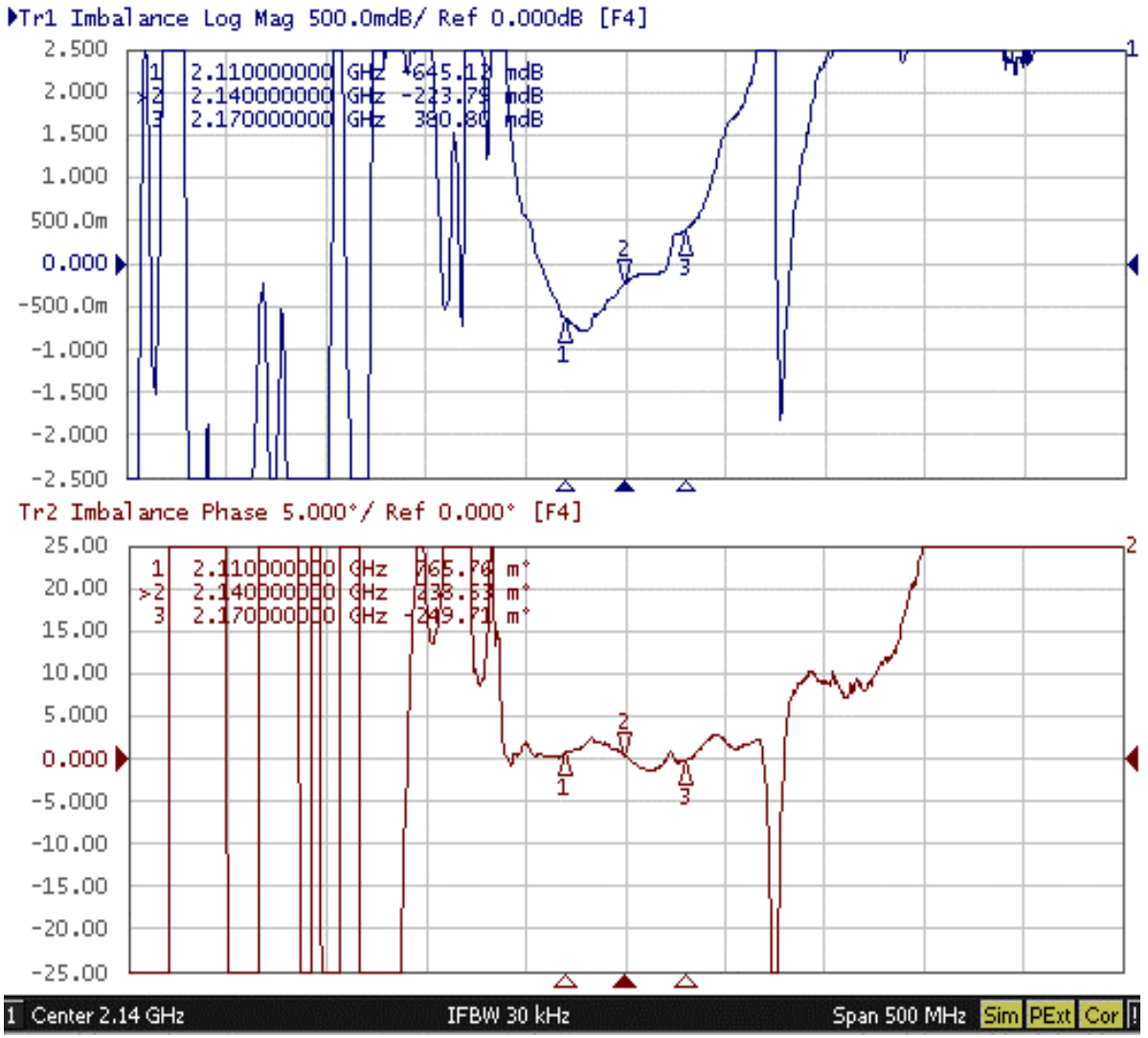
2003.8.29

WCDMA Rx SAW Filter

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

Part No. :

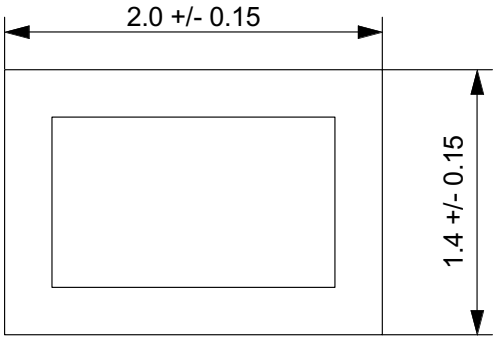
Design No. : T2140D4

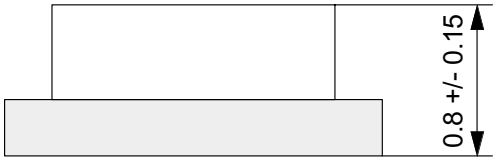


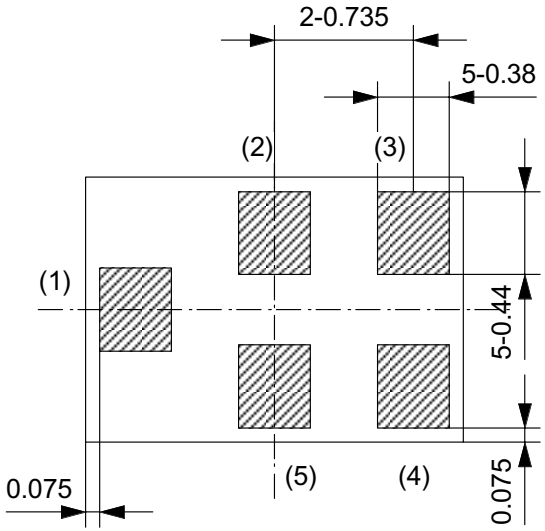
Panasonic

THIRD ANGLE PROJECTION

Tolerance : +/-0.05







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

Under Development

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

ISSUE	REVISIONS	DATE

MATERIAL	FINISH	SCALE
DESIGN		
DRAW		
CHECK		
APPROVAL		

DRAWING NO.

NAME
SAW Filter

TYPE NO.

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

CERAMIC BUSINESS UNIT, LCR DEVICE COMPANY
MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD.
KADOMA, OSAKA, JAPAN

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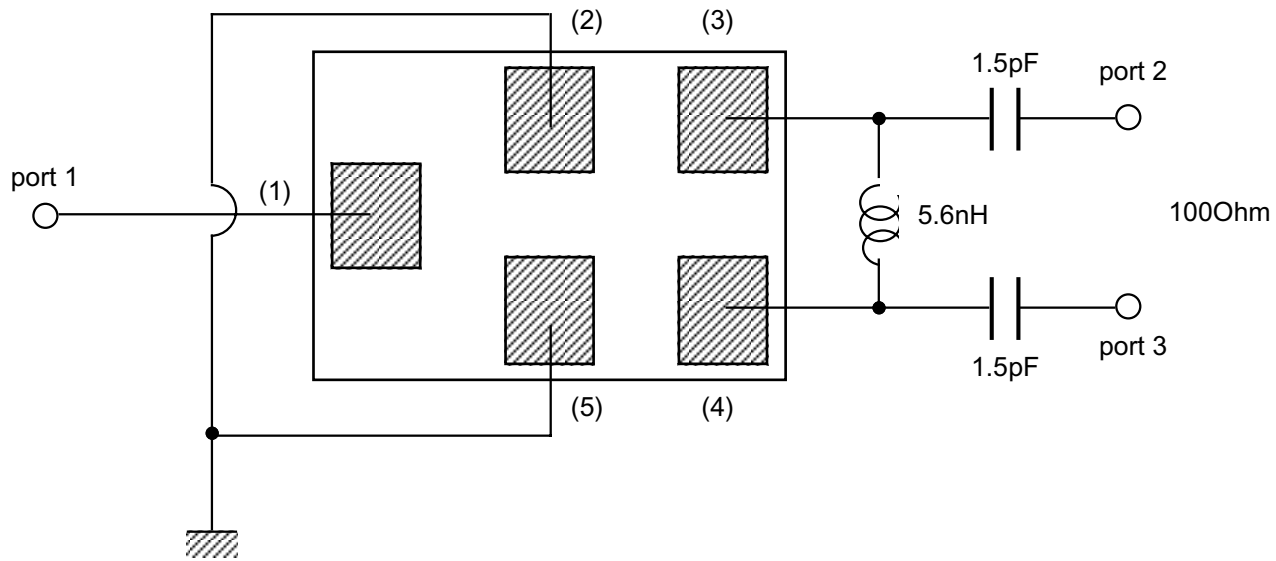
THIRD ANGLE PROJECTION

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

Measurement Circuit



Input impedance : 50 Ohm (Single ended)
Output impedance : 100 Ohm (Differential)

ISSUE	REVISIONS	DATE

MATERIAL	FINISH	SCALE
DESIGN		
DRAW		
CHECK		
APPROVAL		

DRAWING NO.

NAME
SAW Filter

TYPE NO.

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Fig. 2

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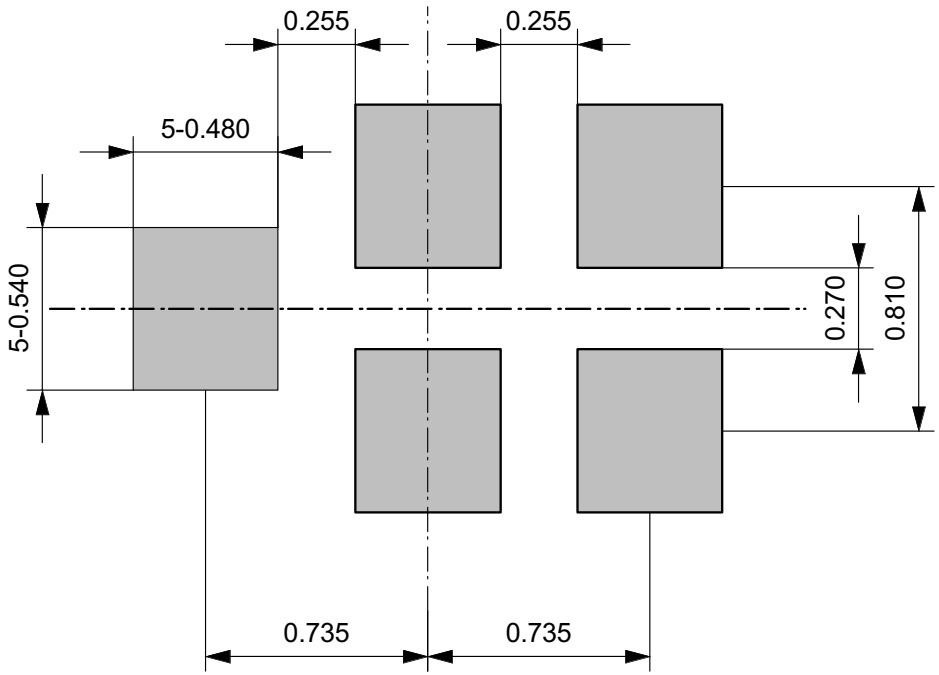
THIRD ANGLE PROJECTION

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

Recommended land pattern



ISSUE	REVISIONS	DATE

MATERIAL	FINISH	SCALE
DESIGN		
DRAW		
CHECK		
APPROVAL		

DRAWING NO.

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