



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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To _____

No. ZWCD-040403M-01

Date 29th Aug. '03

Type No.
WTDA1

Data Sheet

WCDMA Tx SAW Filter	
Application	: Tx Filter for WCDMA
Center Frequency	: 1950MHz
Size	: 2.0x1.4mm, 5pin-layout
Impedance	: 50-50ohms unbalance-unbalance
Part No.	: EFCH1950TCD1

Issued *A. Tsunekawa*
Check *K. Nishimura*

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

WCDMA Tx SAW Filter

----- Unbalanced input and unbalanced output -----

Part No. :

Design No. : T1950F1

Parameter	Frequency	Your request			Our Target			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Passband					1920 ... 1980			MHz
Insertion loss	1920 ... 1980MHz					2.3	2.9	dB
Ripple in passband	1920 ... 1980MHz					0.6	1.3	dB
Attenuation	Att1	0.1 ... 1805MHz				31	36	dB
	Att2	1805 ... 1880MHz				20	24	dB
	Att3	2110 ... 2170MHz				35	37	dB
	Att4	2170 ... 3840MHz				24	30	dB
	Att5	3840 ... 3960MHz				30	48	dB
	Att6	5760 ... 5940MHz				30	45	dB
VSWR	Input	1920 ... 1980MHz				1.9	2.1	
	Output	1920 ... 1980MHz				1.9	2.1	
Input impedance (Single Ended)					50			Ohm
Output impedance (Single Ended)					50			Ohm
Maximum drive level							+12	dBm
Operating temperature					-30		+85	deg. C
Storage temperature					-40		+85	deg. C

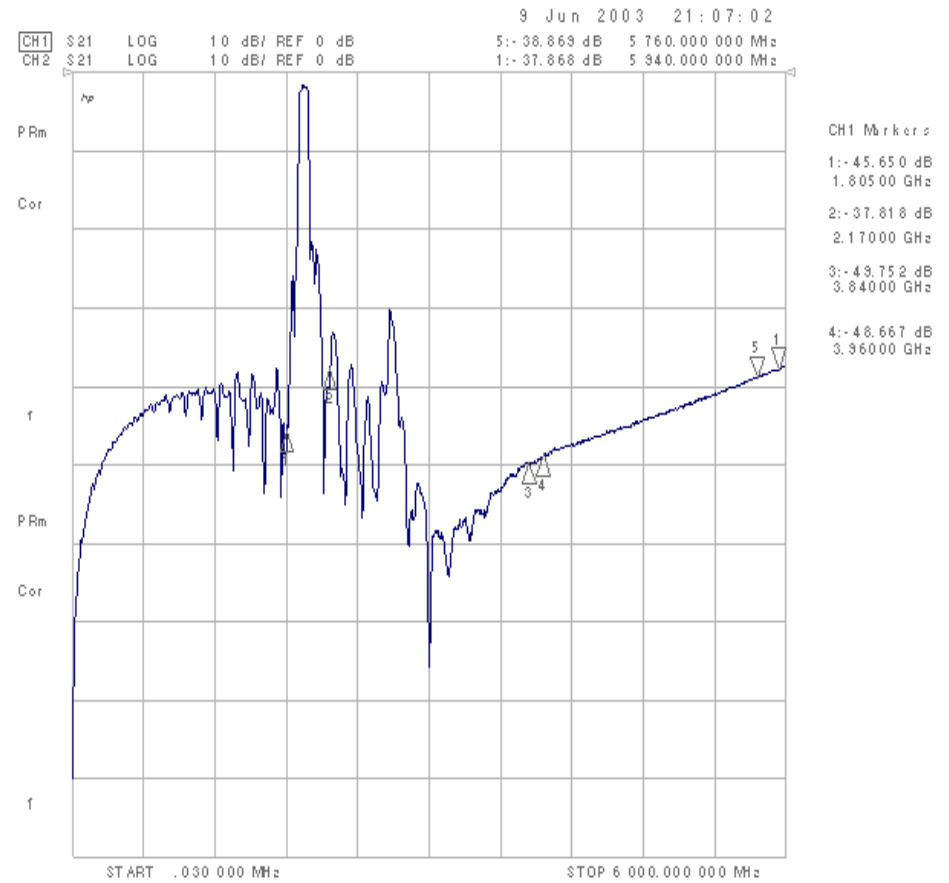
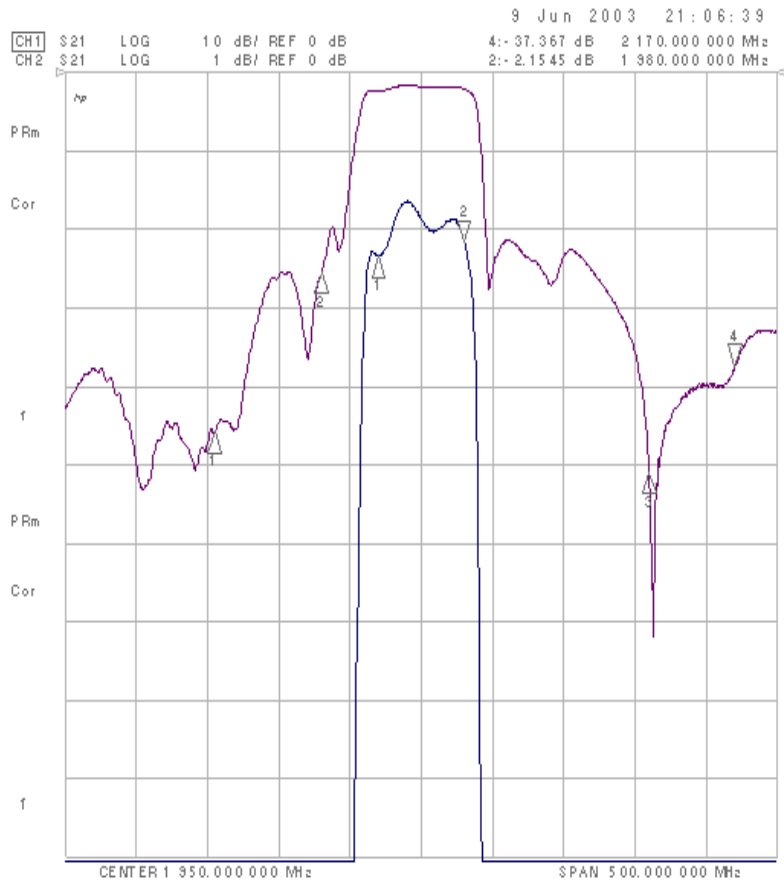
WCDMA Tx SAW Filter

----- Unbalanced input and unbalanced output -----

Part No. :

Design No. : T1950F1

JIG LOSS = 0.2dB

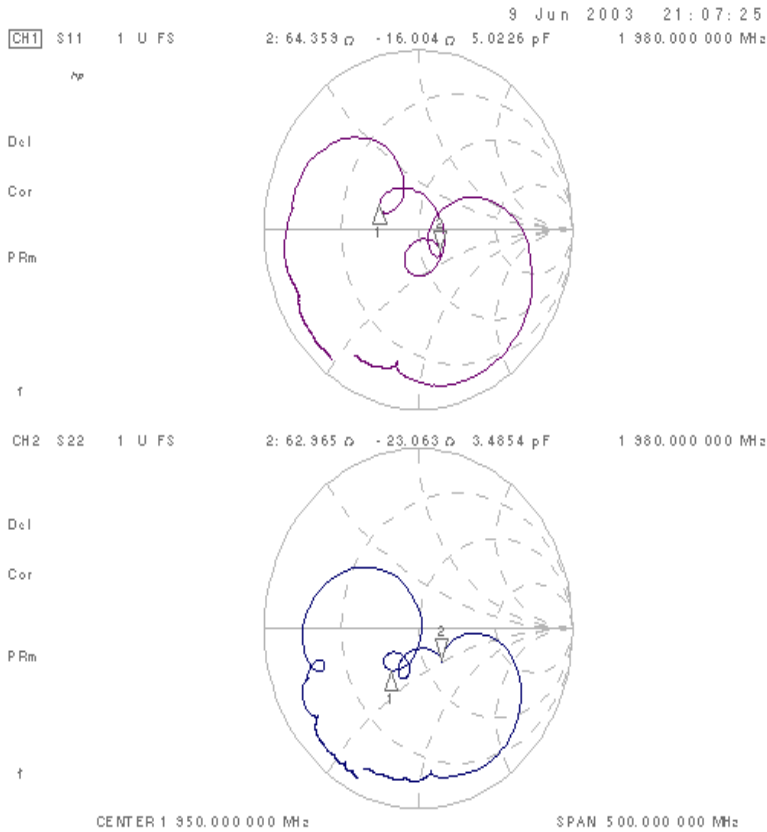


WCDMA Tx SAW Filter

----- Unbalanced input and unbalanced output -----

Part No. :

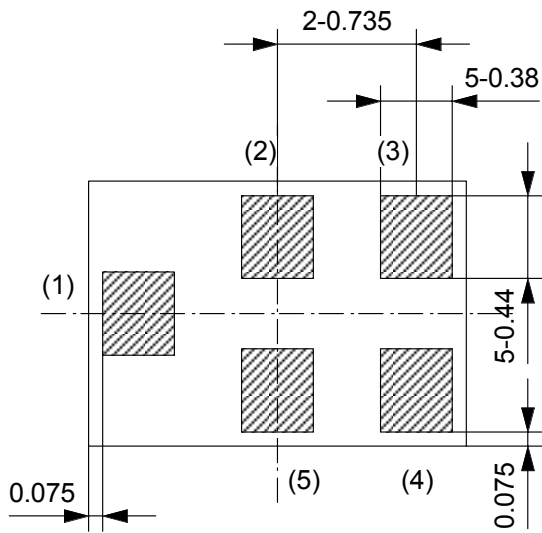
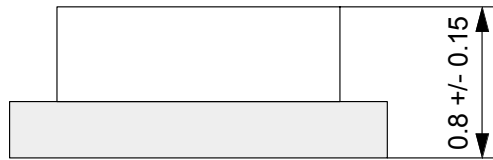
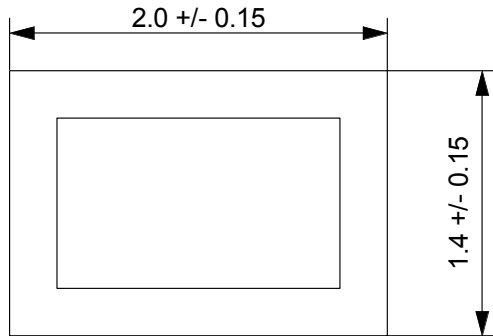
Design No. : T1950F1



THIRD ANGLE PROJECTION

Tolerance : +/-0.05

Under Development



- (1) Input
- (2) GND
- (3) GND
- (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.
SAW Filter	

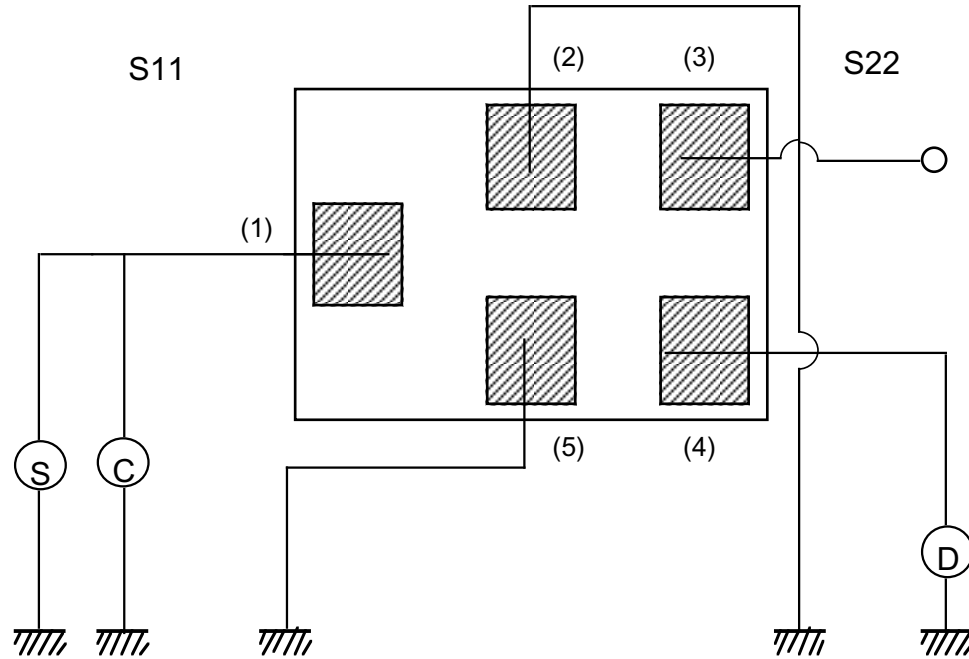
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MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD.
KADOMA, OSAKA, JAPAN**

DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION



0 Level

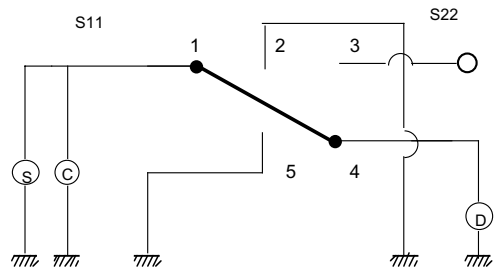


Fig. 2

S : Standard Signal Generator
(Output Impedance 50 ohm)
C : Frequency Counter
D : Detector
(Input Impedance 50 ohm)

UNLESS OTHERWISE SPECIFIED

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

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ISSUE	REVISIONS	DATE

NAME	TYPE NO.
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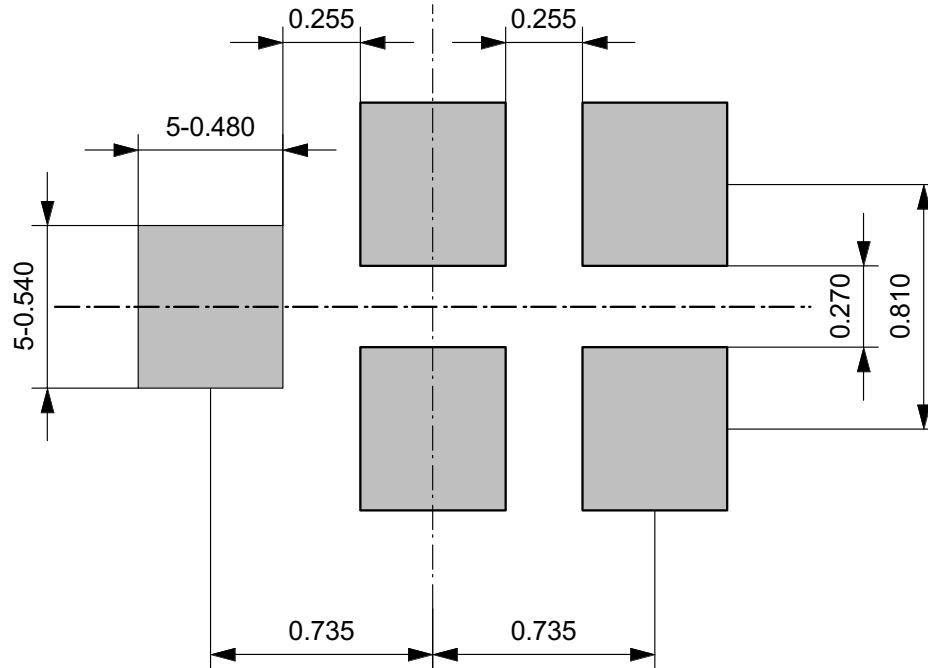
SAW filter

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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



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SAW Filter

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