

To \_\_\_\_\_

No. A766-040403M-01

Date 3rd Apr. '04

Type No.  
**DRDA3**

Data Sheet

<b>DCS1800 Rx SAW Filter</b>	
Application	: Rx Filter for DCS1800
Center Frequency	: 1842.5MHz
Size	: 2.0x1.4mm, 5pin-layout
Impedance	: 50-50ohms unbalance-unbalance
Part No.	: EFCH1842TCD1

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

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

**DCS1800 Rx SAW Filter**

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

Part No. :

Design No. : T1842T5D2

Parameter		Frequency	Your request			Our Specification			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Passband			1805 ... 1880			1805 ... 1880			MHz
Insertion loss		1805 ... 1880MHz					1.9	3.0	dB
Ripple in passband		1805 ... 1880MHz					1.0	1.9	dB
Attenuation	Att1	DC ... 1705MHz				30	34		dB
	Att2	1705 ... 1785MHz				12	14		dB
	Att3	1920 ... 1980MHz				13	18		dB
	Att4	1980 ... 2500MHz				30	33		dB
	Att5	2500 ... 3840MHz				25	28		dB
	Att6	3840 ... 6000MHz				20	37		dB
VSWR	Input	1805 ... 1880MHz					2.6	2.8	
	Output	1805 ... 1880MHz					2.6	2.8	
Input impedance (Single Ended)						50			Ohm
Output impedance(Single Ended)						50			Ohm
Maximum drive level								13	dBm
Operating temperature						-10		+80	deg. C
Storage temperature						-40		+85	deg. C

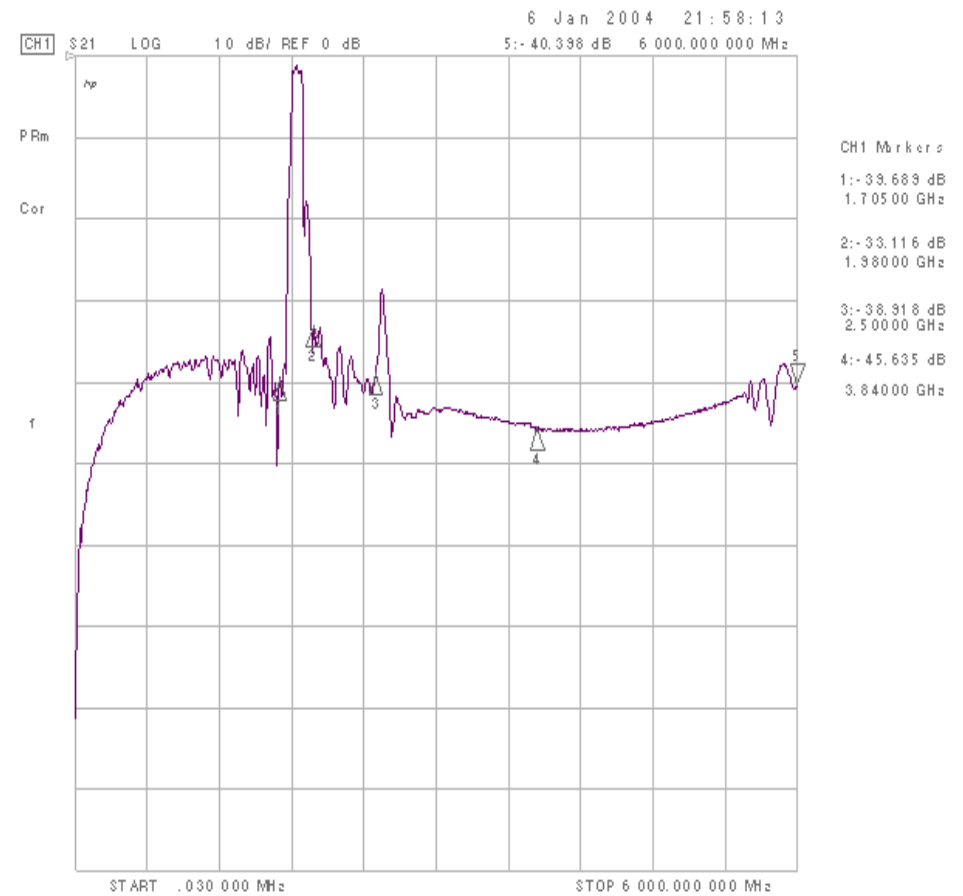
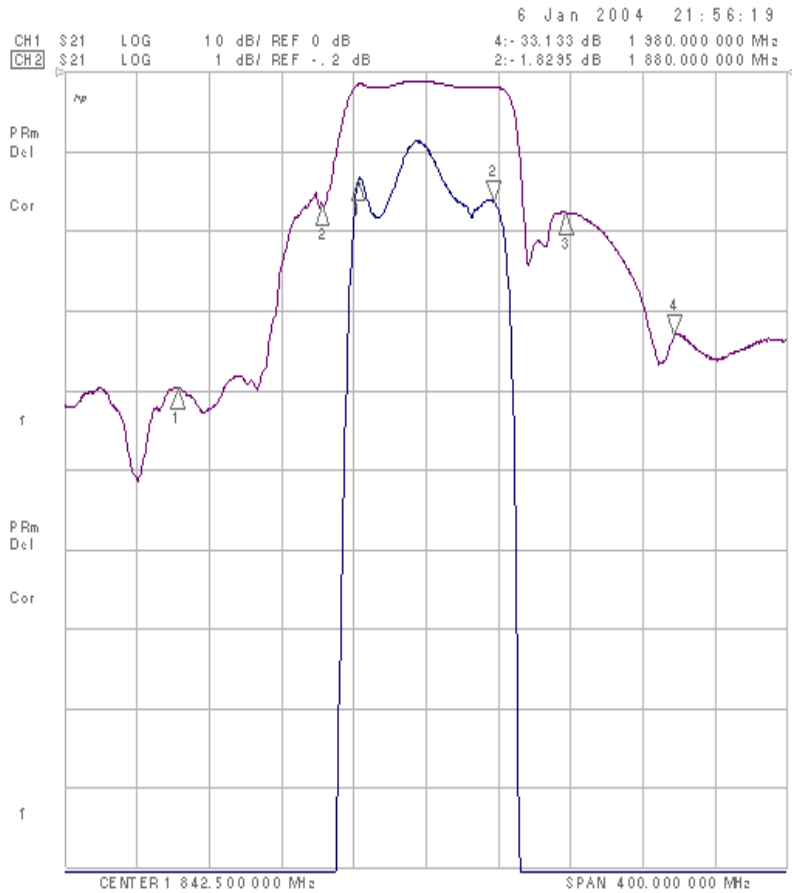
# DCS1800 Rx SAW Filter

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

Part No. :

Design No. : T1842T5D2

Jig Loss = 0.2dB



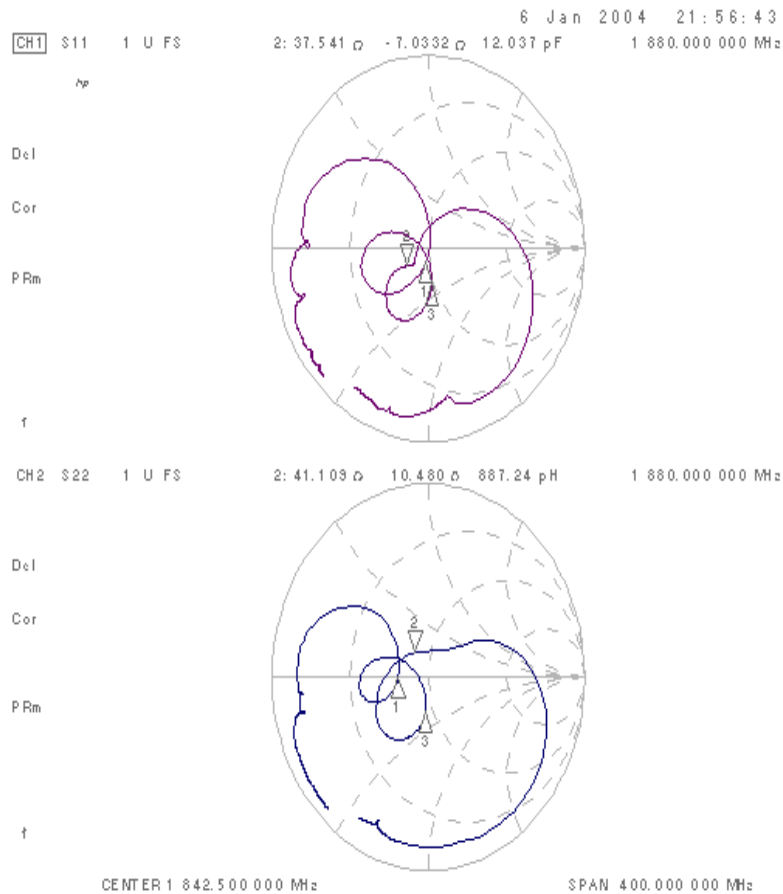
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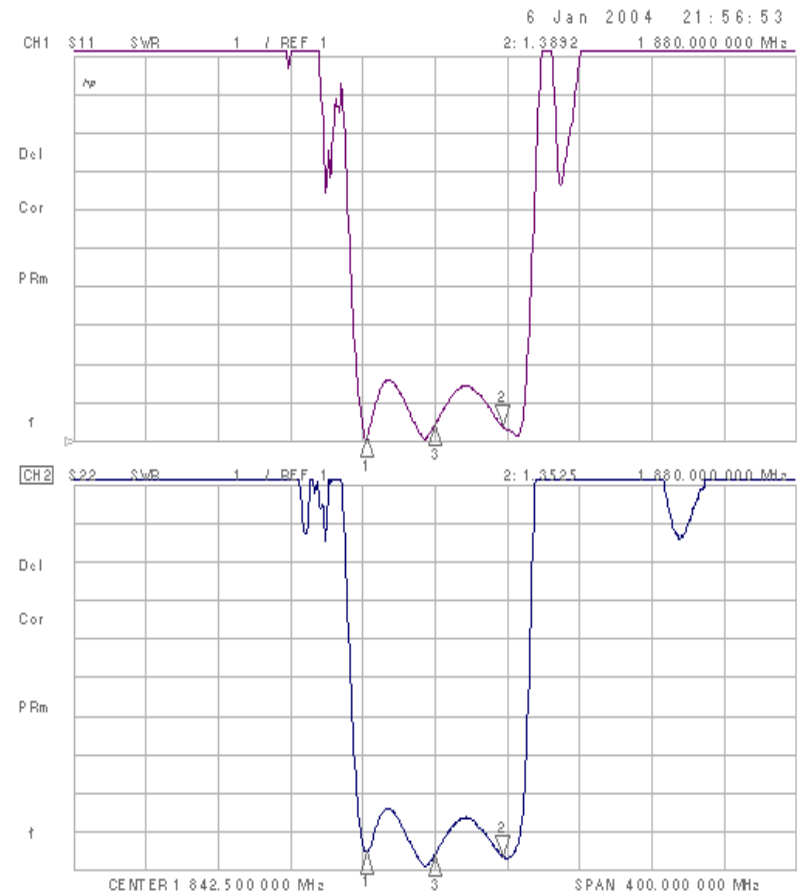


CH1 Markers

1:	47.770 $\text{dB}$
	-6.6314 $\text{dB}$
	1.80500 GHz
3:	48.758 $\text{dB}$
	-18.430 $\text{dB}$
	1.84250 GHz

CH2 Markers

1:	33.900 $\text{dB}$
	0.0234 $\text{dB}$
	1.80500 GHz
3:	45.170 $\text{dB}$
	-16.270 $\text{dB}$
	1.84250 GHz



CH1 Markers

1:	1.1545
	1.80500 GHz
3:	1.4509
	1.84250 GHz

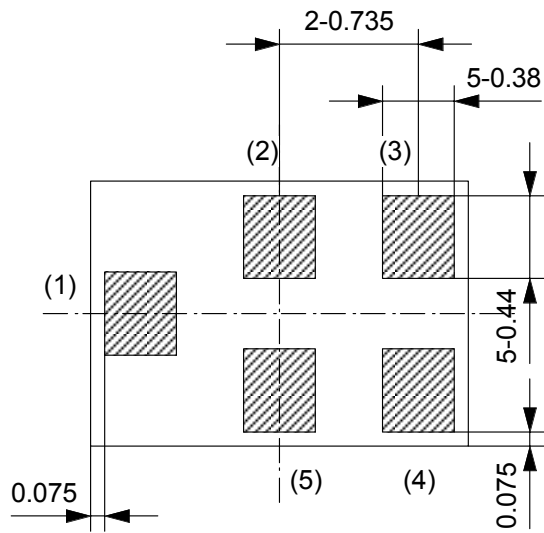
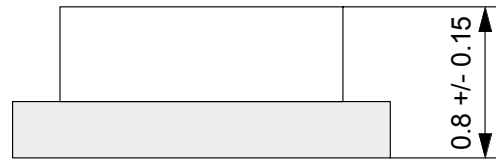
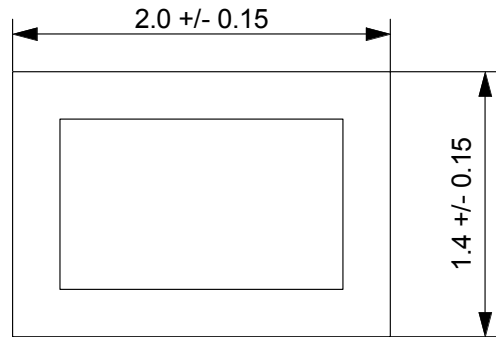
CH2 Markers

1:	1.4752
	1.80500 GHz
3:	1.4254
	1.84250 GHz

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	

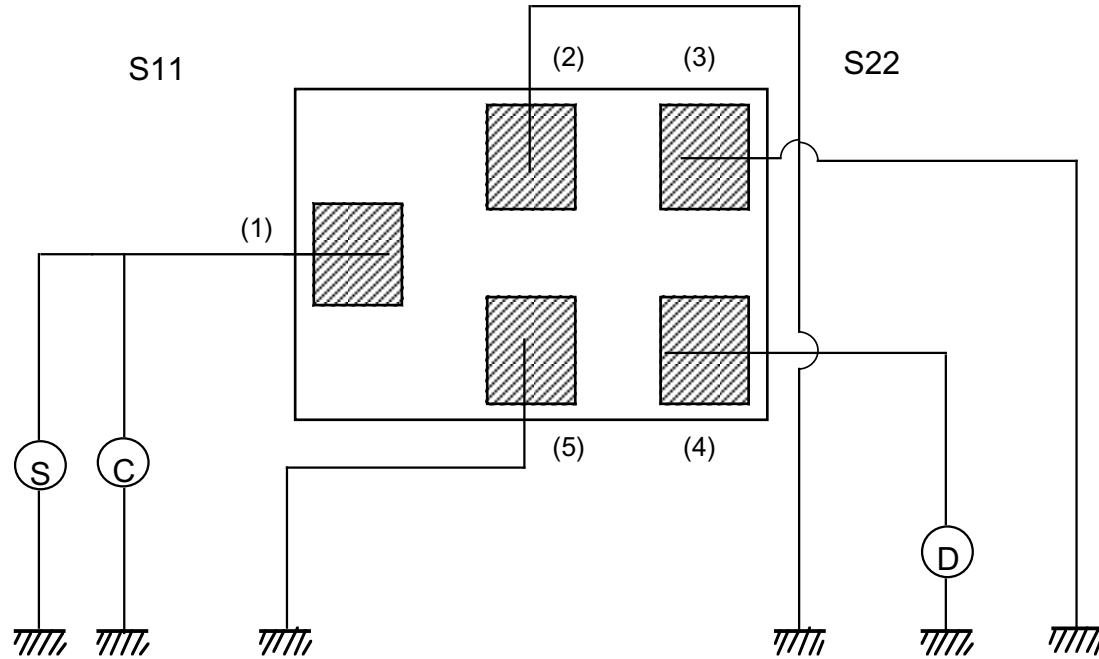
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KADOMA, OSAKA, JAPAN**

DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION



0 Level

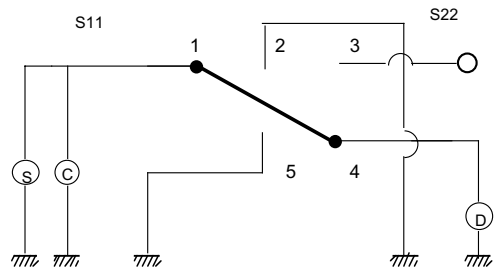


Fig. 2

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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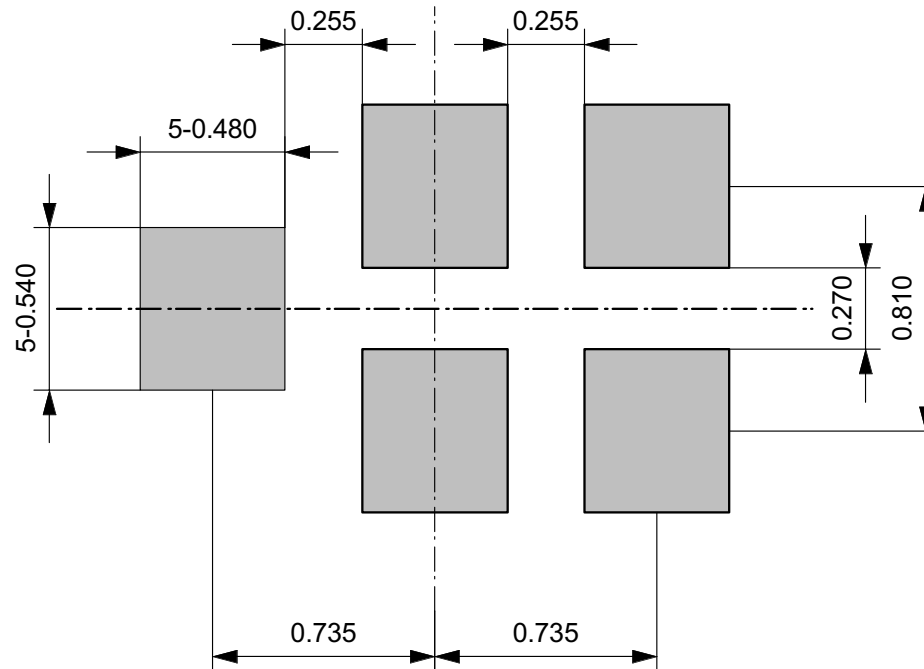
SAW filter

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THIRD ANGLE PROJECTION

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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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