

To \_\_\_\_\_

No. A236-040403N-01

Date 3rd Apr. '04

Type No.  
**DRAC4**

Data Sheet

<b>DCS1800 Rx SAW Filter</b>	
Application	: Rx Filter for DCS1800
Center Frequency	: 1842.5MHz
Size	: 2.0x1.4mm, 5pin-layout
Impedance	: 50-150ohms unbalance-balance
Part No.	: EFCH1842TCA7

Issued *S. Tsuzuki*

Check *K. Nishimura*

CIRCUIT COMPONENTS BUSINESS UNIT

**MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD**

KADOMA, OSAKA, JAPAN

**DCS1800 Rx SAW Filter**

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

Part No. :

Design No. : T1842TMD

Parameter		Frequency	Your request			Our preliminary spec.			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Passband			1805 ... 1880			1805 ... 1880			MHz
Insertion loss		1805 ... 1880MHz					1.7	2.4	dB
Ripple in passband		1805 ... 1880MHz					0.5	1.5	dB
Amplitude imbalance		1805 ... 1880MHz				-1.5	-0.6 +0.6	+1.5	dB
Phase imbalance		1805 ... 1880MHz				-10	-2 +0	+10	deg.
Attenuation	Att1	DC ... 1705MHz				30	38		dB
	Att2	1705 ... 1785MHz ( T=+15 ... +60 deg.C )				12	15		dB
		1705 ... 1785MHz ( T=-10 ... +80 deg.C )				10			dB
	Att3	1920 ... 1980MHz				12	18		dB
	Att4	1980 ... 2500MHz				20	25		dB
	Att5	2500 ... 3840MHz				25	30		dB
	Att6	3840 ... 6000MHz				20	40		dB
VSWR	Input	1805 ... 1880MHz					2.3	2.7	
	Output	1805 ... 1880MHz					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

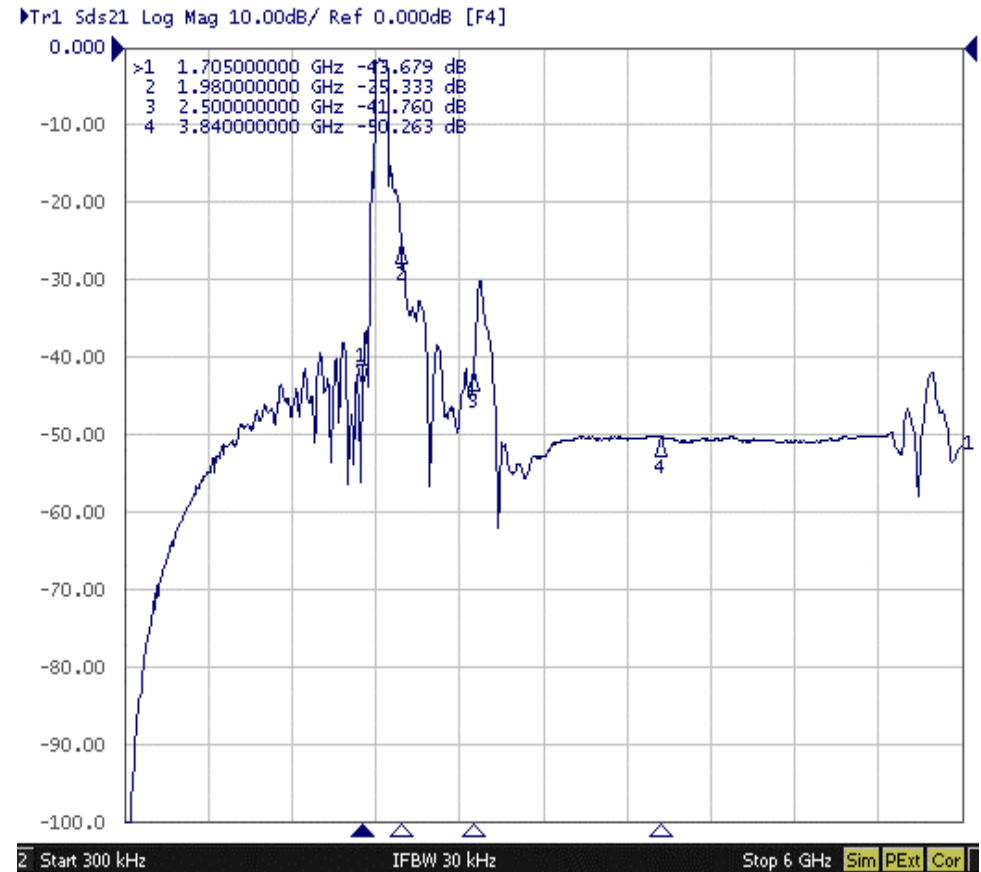
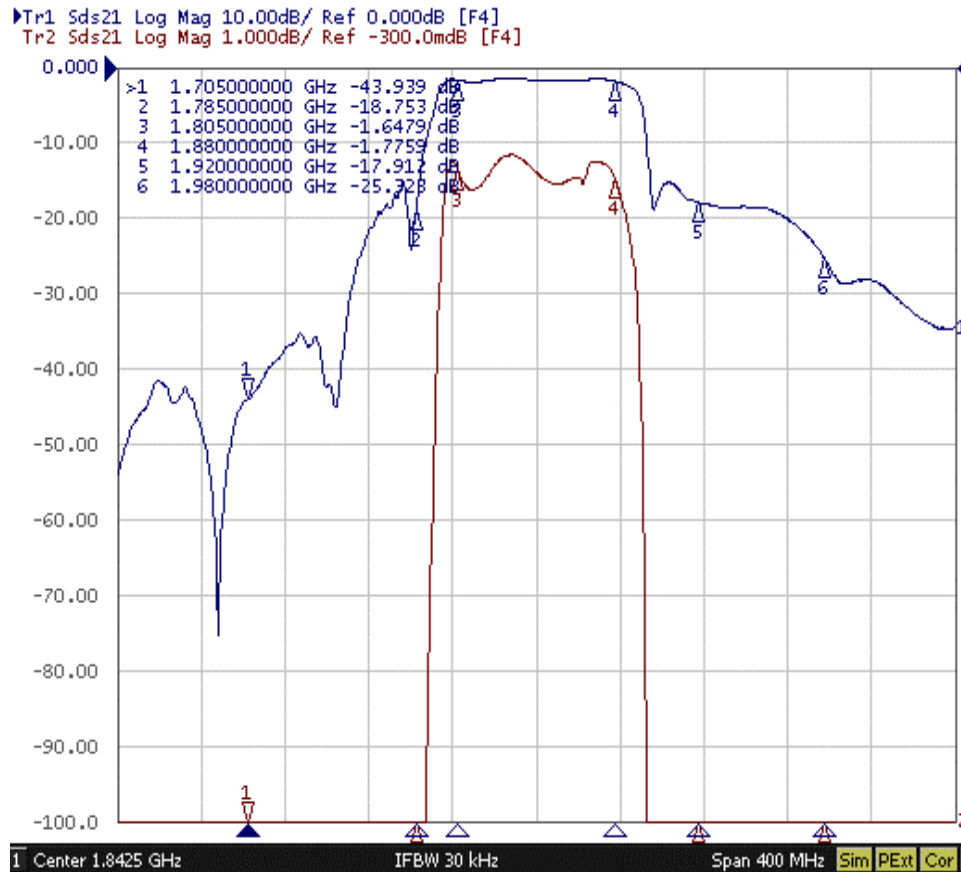
## DCS1800 Rx SAW Filter

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

Part No. :

Design No. : T1842TMD

Jig Loss = 0.3dB

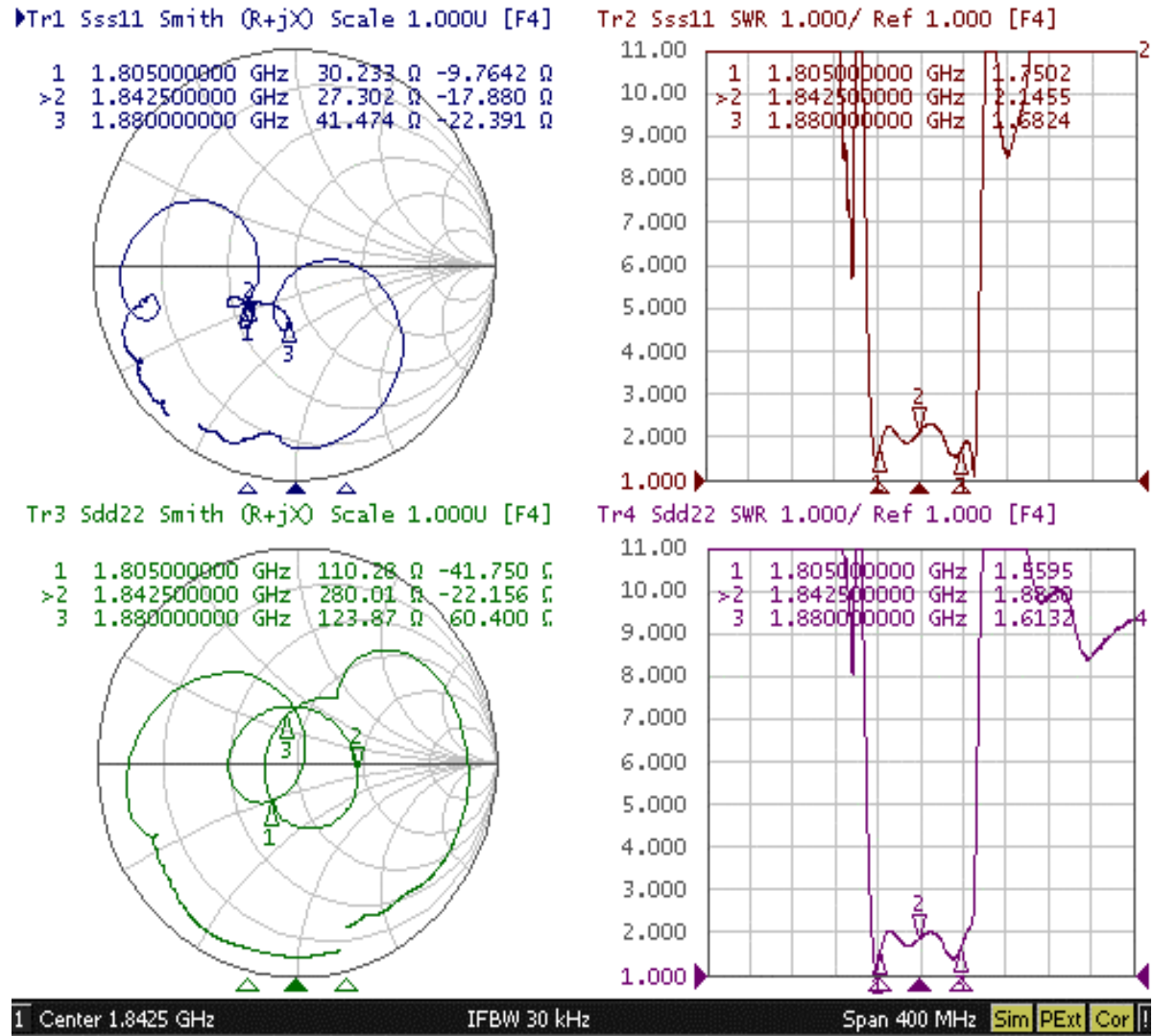


# DCS1800 Rx SAW Filter

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

Part No. :

Design No. : T1842TMD

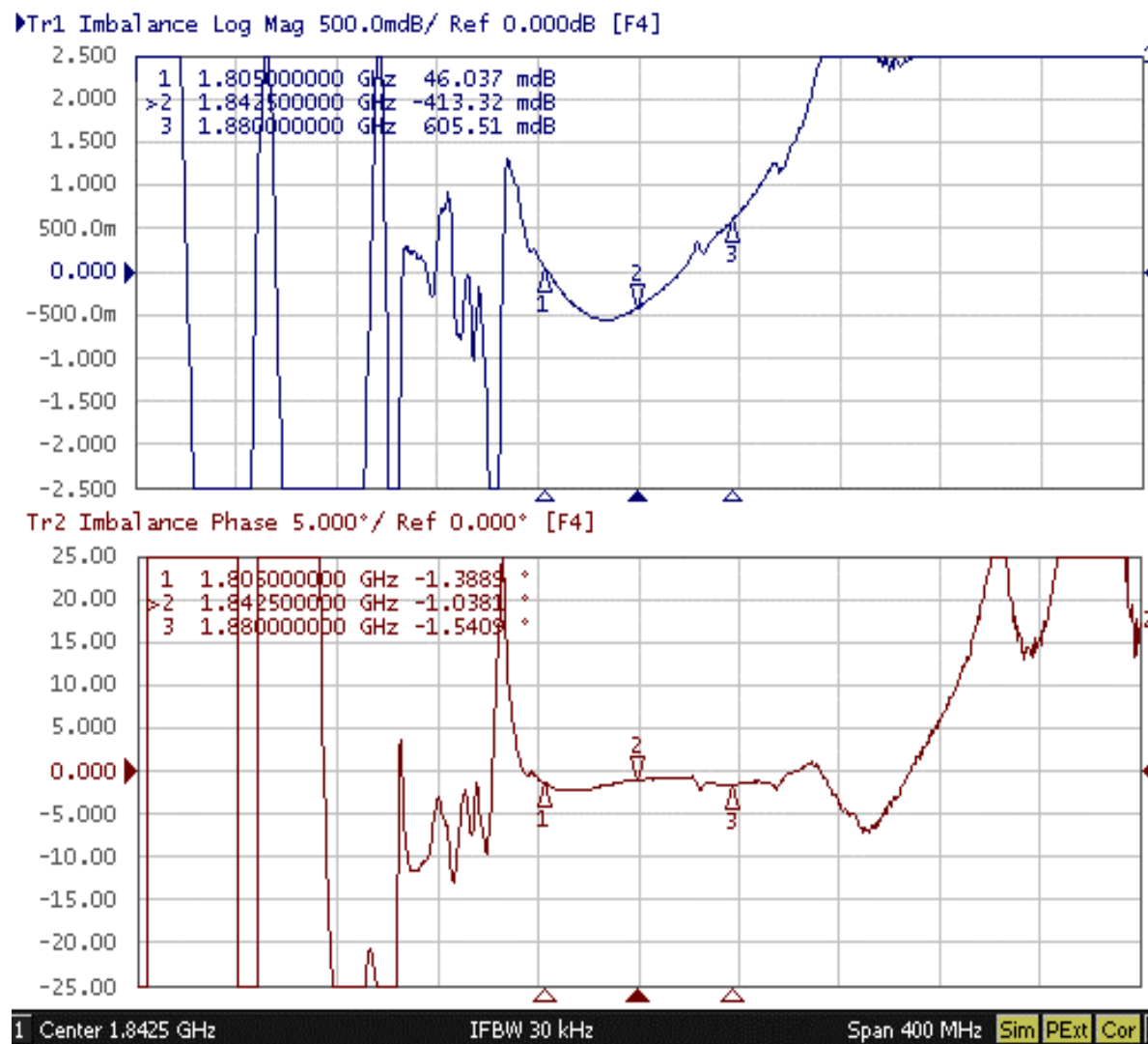


## DCS1800 Rx SAW Filter

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

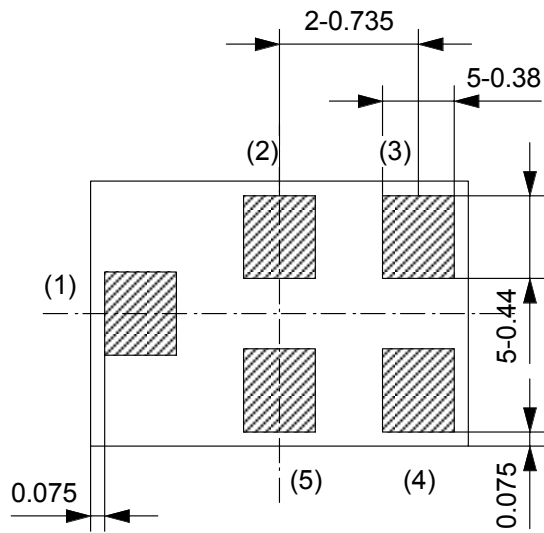
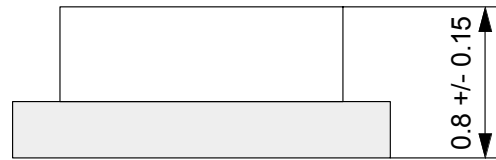
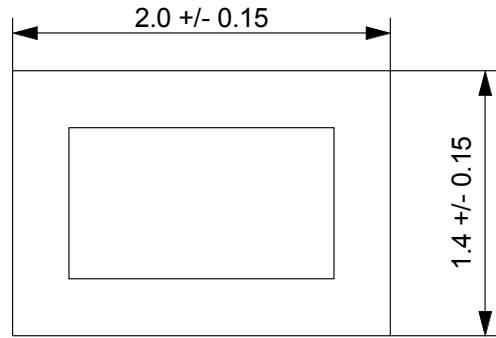
Part No. :

Design No. : T1842TMD



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

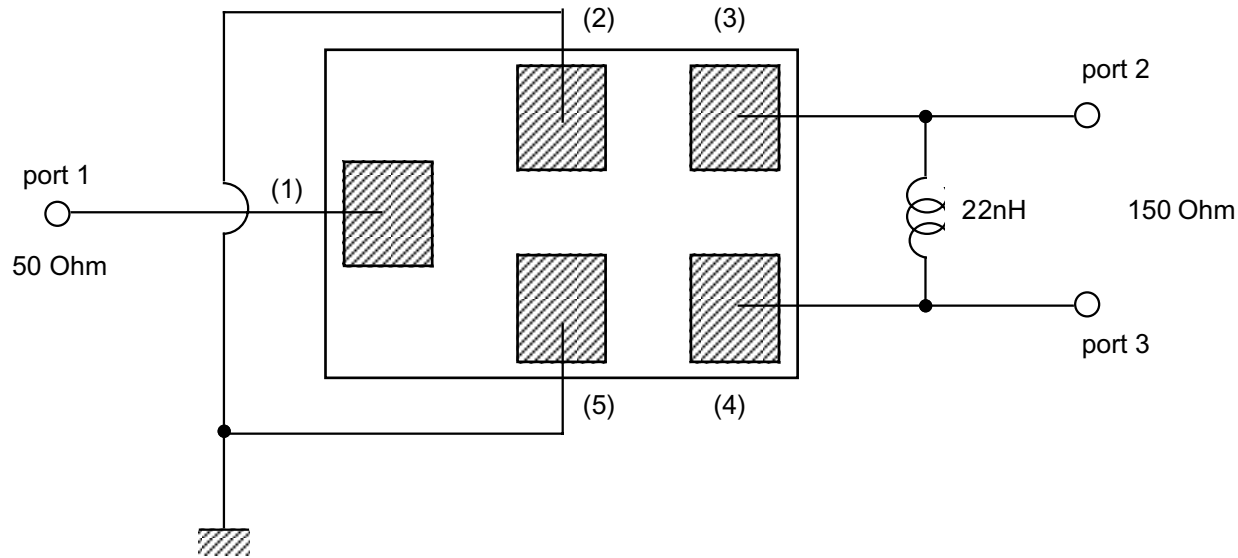
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DO NOT SCALE DRAWING

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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SAW Filter	

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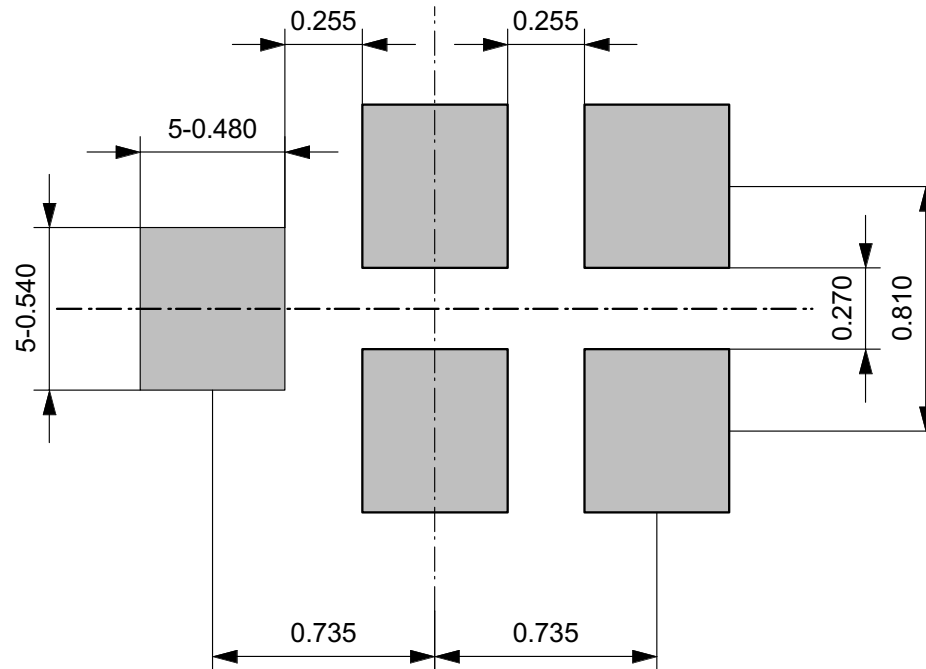
Fig. 2

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

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

**Recommended land pattern**



**Note :**  
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