

To \_\_\_\_\_

No. A237-040403N-01

Date 3rd Apr. '04

Type No.  
**ERAC3**

Data Sheet

<b>EGSM900 Rx SAW Filter</b>	
Application	: Rx Filter for EGSM900
Center Frequency	: 942.5MHz
Size	: 2.0x1.4mm, 5pin-layout
Impedance	: 50-150ohms unbalance-balance
Part No.	: EFCH942MTCA7

Issued S. Tsuzuki

Check K. Nishimura

CIRCUIT COMPONENTS BUSINESS UNIT

**MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD**

KADOMA, OSAKA, JAPAN

**EGSM900 Rx SAW Filter**

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

Part No. :

Design No. : T942TGD

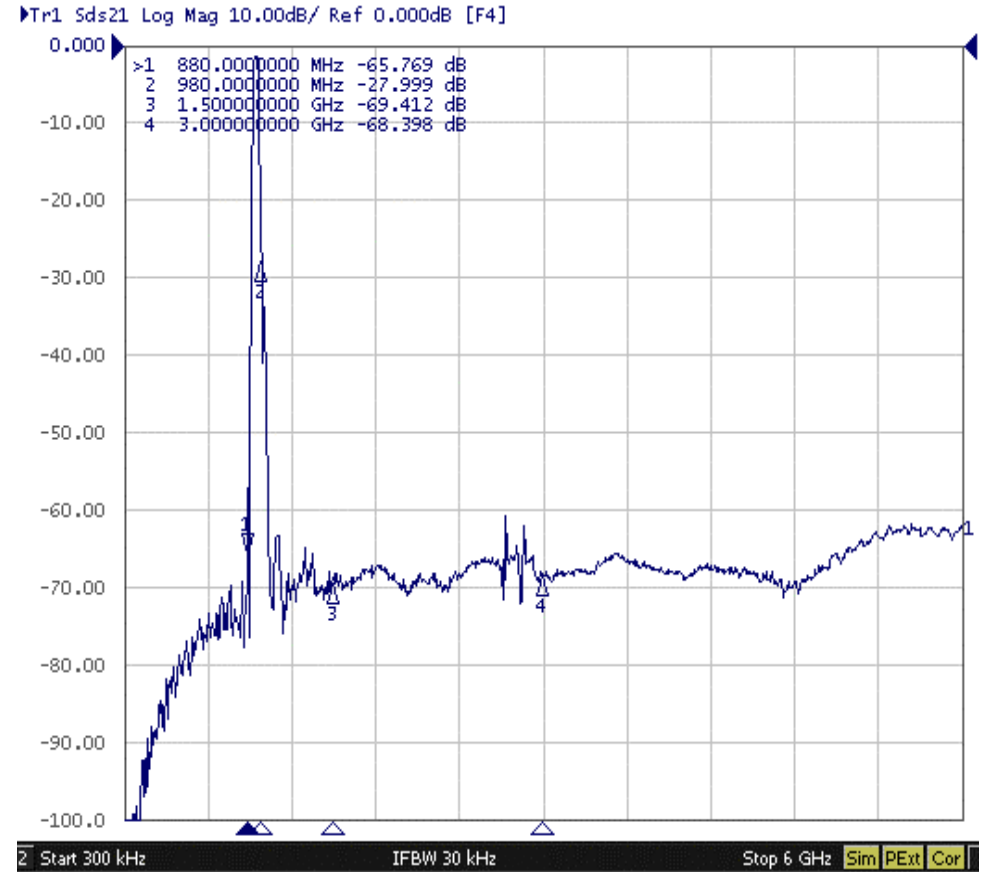
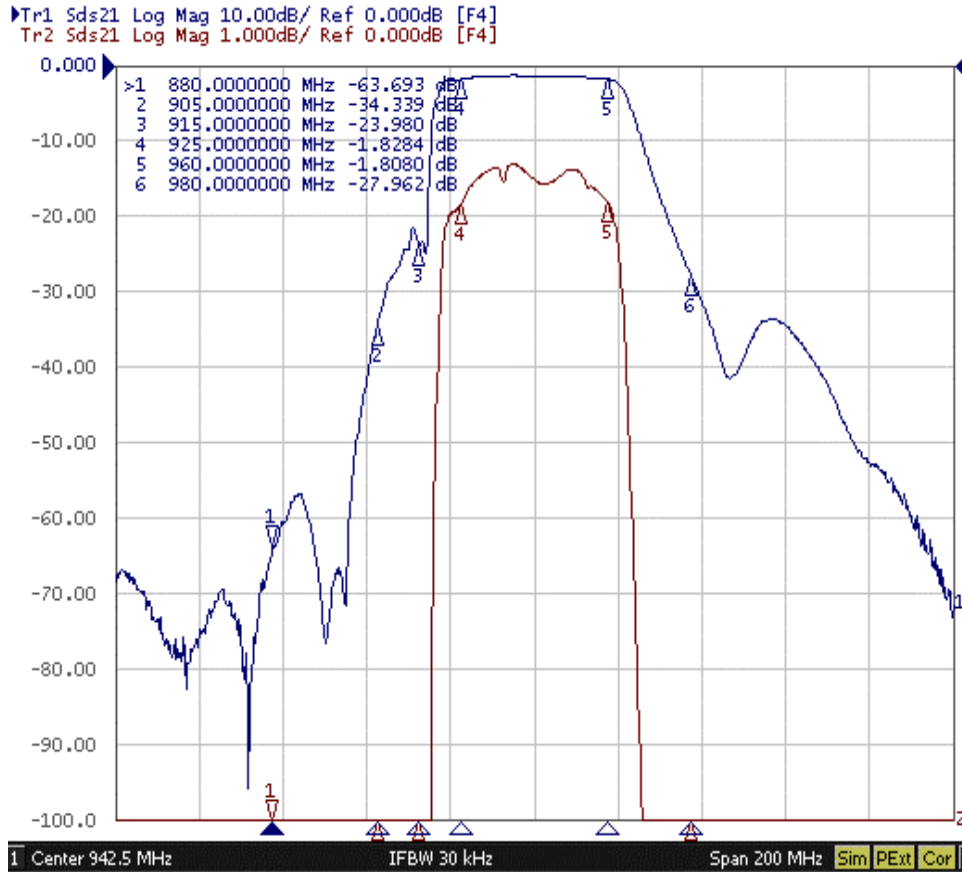
Parameter		Frequency	Your request			Our preliminary spec.			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Passband			925 ... 960			925 ... 960			MHz
Insertion loss		925 ... 960MHz					1.8	2.5	dB
Ripple in passband		925 ... 960MHz					0.5	1.5	dB
Amplitude imbalance		925 ... 960MHz				-0.5	-0.2 +0.1	+0.5	dB
Phase imbalance		925 ... 960MHz				-5	-1 +1	+5	deg.
Attenuation	Att1	DC ... 880MHz				50	63		dB
	Att2	880 ... 905MHz				25	34		dB
	Att3	905 ... 915MHz				18	22		dB
	Att4	980 ... 1500MHz				23	28		dB
	Att5	1500 ... 3000MHz				40	60		dB
	Att6	3000 ... 6000MHz				35	60		dB
VSWR	Input	925 ... 960MHz					1.7	2.0	
	Output	925 ... 960MHz					1.6	2.0	
Input impedance (Single Ended)						50			Ohm
Output impedance (Differential)						150 // 82 nH			Ohm
Maximum drive level								13	dBm
Operating temperature						-10		+80	deg. C
Storage temperature						-40		+85	deg. C

# EGSM900 Rx SAW Filter

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

Part No. :

Design No. : T942TGD

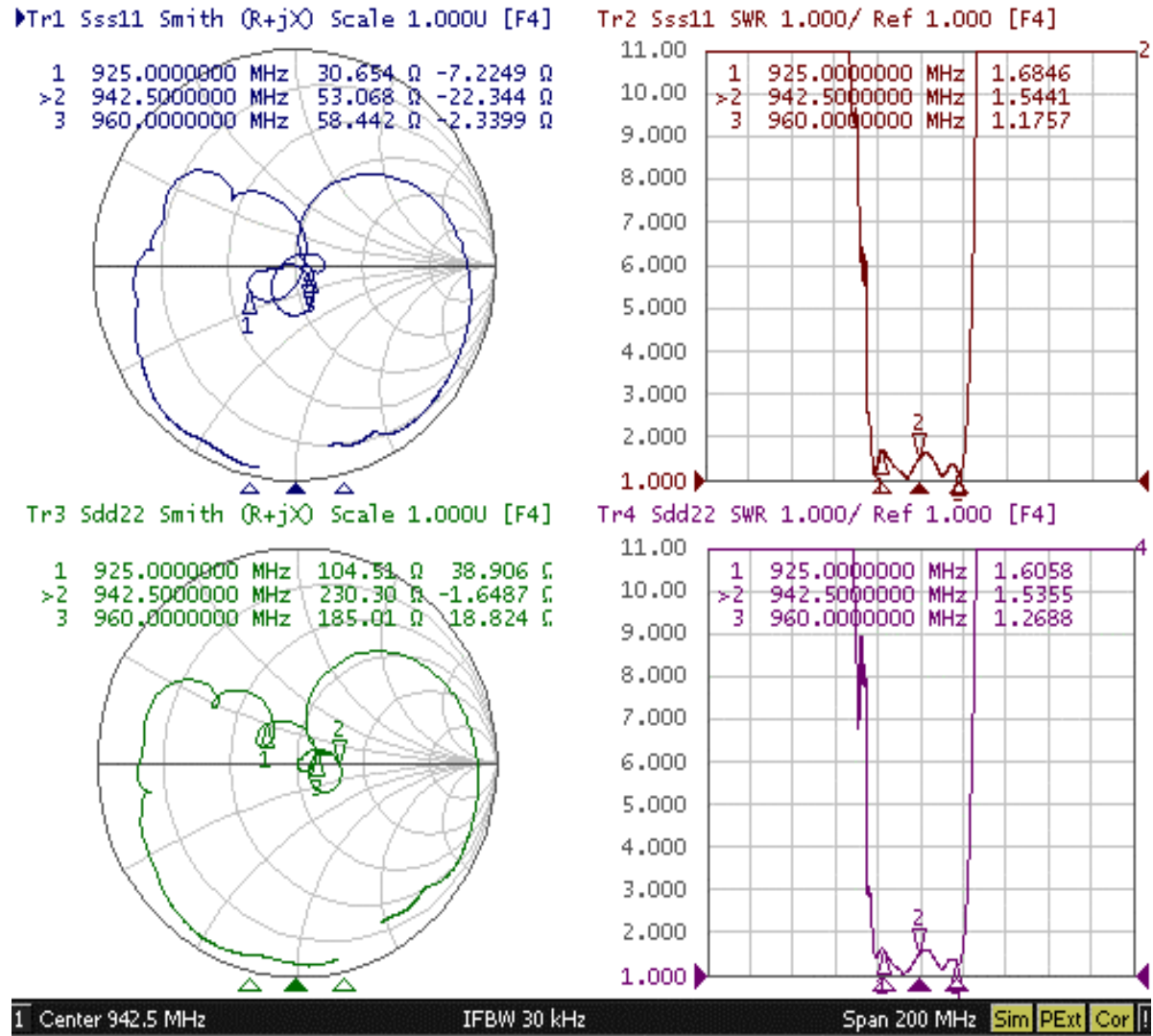


## EGSM900 Rx SAW Filter

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

Part No. :

Design No. : T942TGD

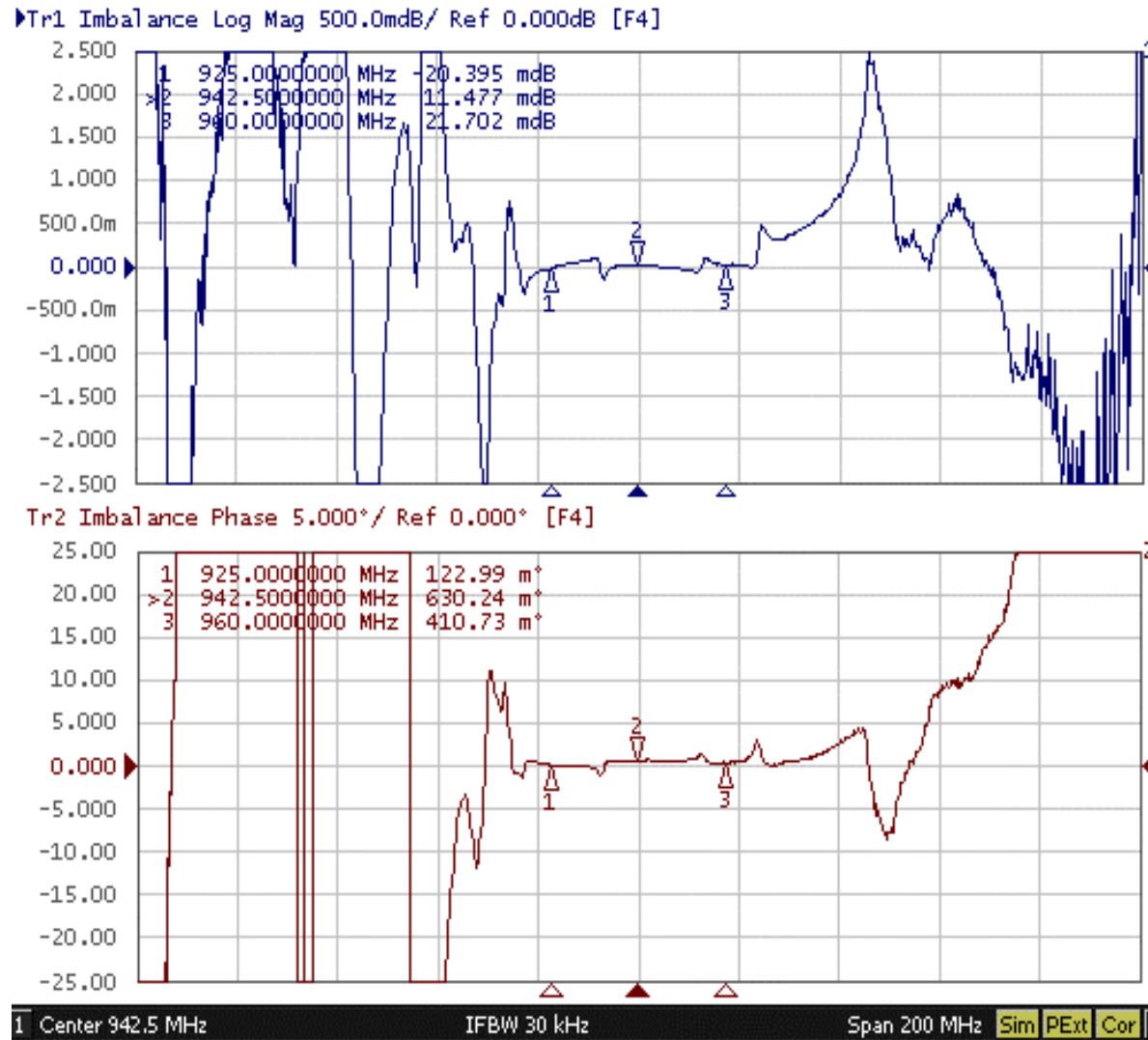


## EGSM900 Rx SAW Filter

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

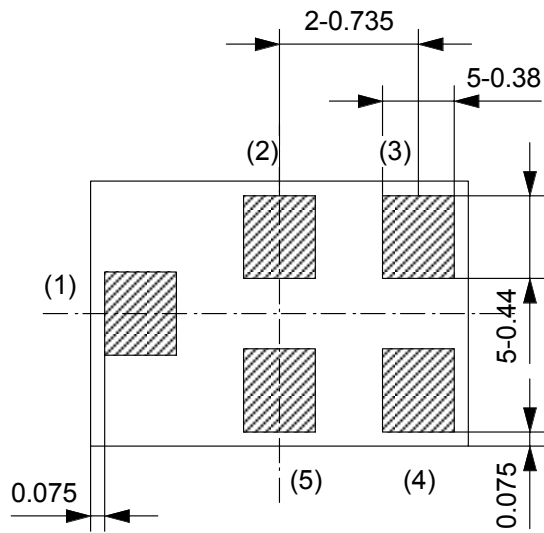
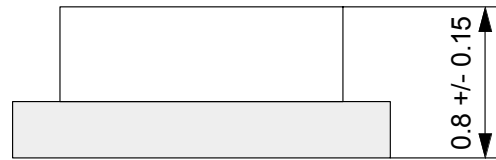
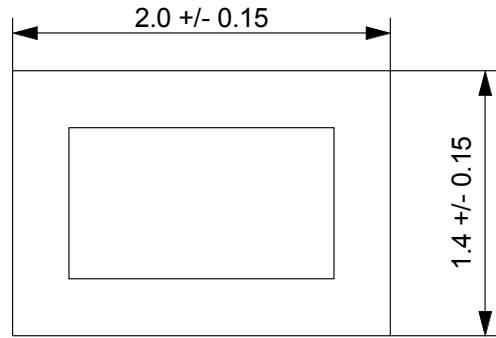
Part No. :

Design No. : T942TGD



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

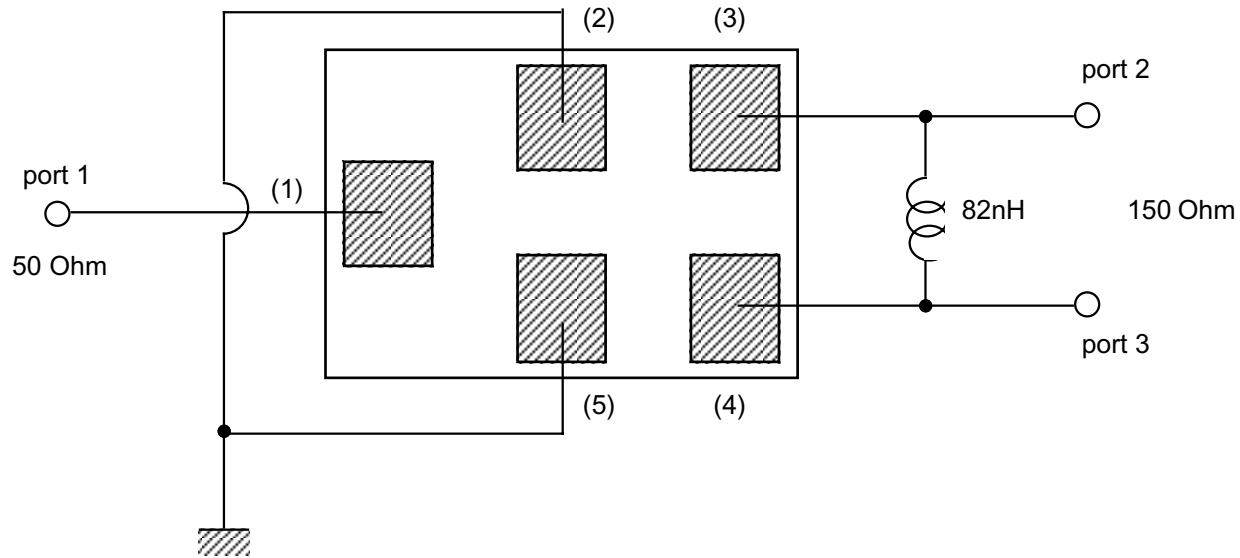
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DO NOT SCALE DRAWING

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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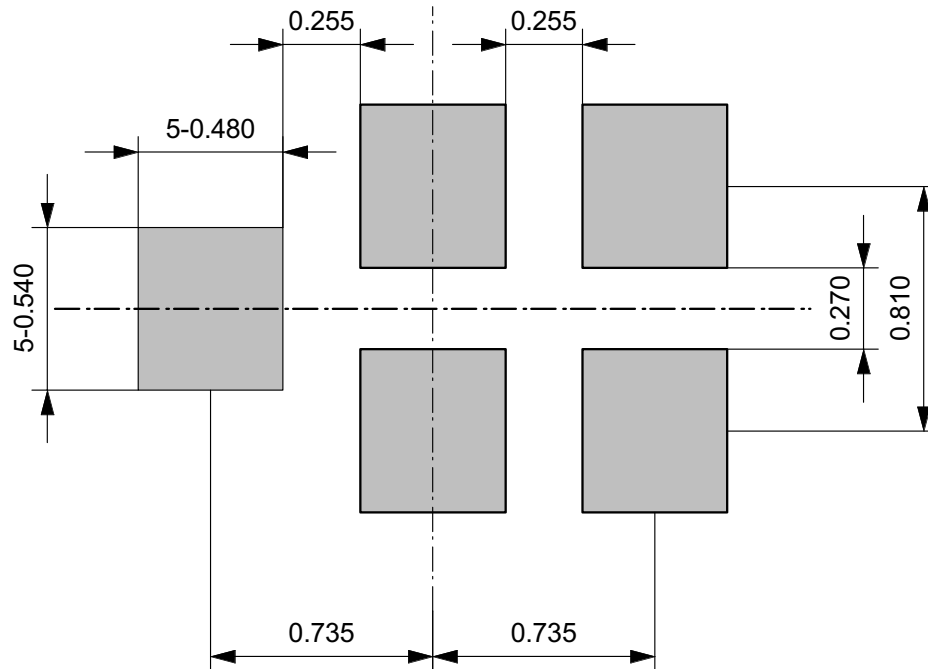
NAME	TYPE NO.
SAW Filter	

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Fig. 2

THIRD ANGLE PROJECTION

**Recommended land pattern**



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BASIC DIMENSIONS		TOLERANCE
UP TO	INCL	
TO	INCL	
TO	INCL	
TO	INCL	
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NAME **SAW Filter** TYPE NO.

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