

No. A226-040403B-01

Date 3rd Apr. '04



Data Sheet

GPS Rx SAW Filter						
: Rx Filter for GPS						
: 1575.42MHz						
: 2.0x1.4mm, 5pin-layout						
: 50-100ohms						
unbalance-balance						
: EFCH1575TCA1						

Issued <u>*U. Watanabe</u>* Check <u>*X. Mishimura*</u></u>

CIRCUIT COMPONENTS BUSINESS UNIT

## MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD

KADOMA, OSAKA, JAPAN

То

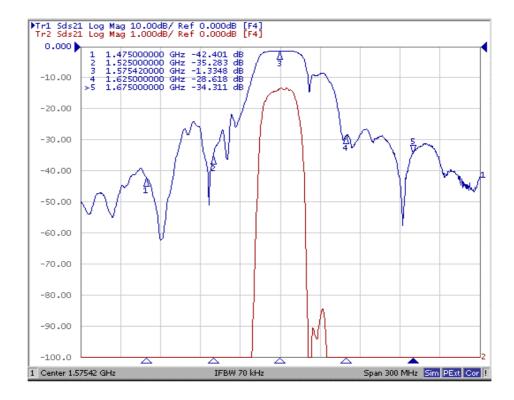
## GPS RF SAW Filter, 1575.42MHz Design NO. dubw027 == Preliminary Specification ==

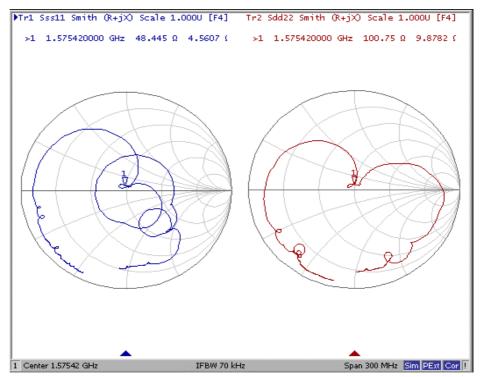
Parameter		Frequency	Your requirements			Our puropusal			Unit
						ļ			
		(MHz)	Min.	Тур.	Max.	Min.	Тур.	Max.	
Center Frequency (fo)				1575			1575.4		
Insertion Loss		1575.42 MHz			1.8		1.1	1.5	dB
Pass band ripple		1574.42 to 1576.42MHz			0.7		0.1	0.3	dBpp
Attenuation	Att1	<1475MHz	30			35	42		
	Att2	1475 to 1525MHz	10			20	25		
	Att3	1625 to 1675MHz	10			20	27		dB
	Att4	1675 to 3155MHz	30			30	35		
	Att5	>3155MHz	20			30	43		
Mean Square Phase Err	or	1574.42 to 1576.42MHz			1		0.4	0.8	°rms
Phase Imbalance					+/-20	-20	5	20	Degree
Amplitude Imbalance					+/-2	-2	0.8	2	dB
In/Out VSWR		1574.42-1576.42		1.1	1.5		1.1	1.5	
Terminate impedance(in)		Single-ended		50			50		ohm
(out) Di		Differential		100			100		ohm
Operating Temperature			-30	25	85	-30	25	85	°C

a value which pulled JIG Loss: 0. 2dB.

## GPS Rx SAW Filter

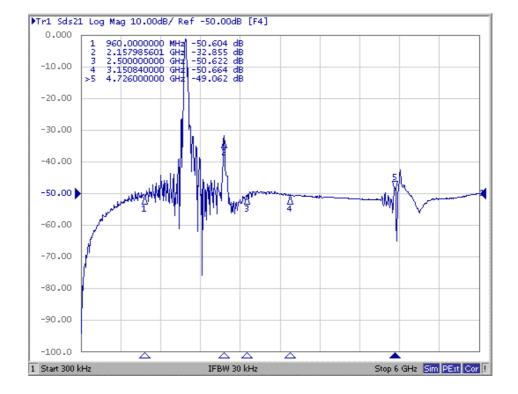
Design No dubw027





## GPS Rx SAW Filter

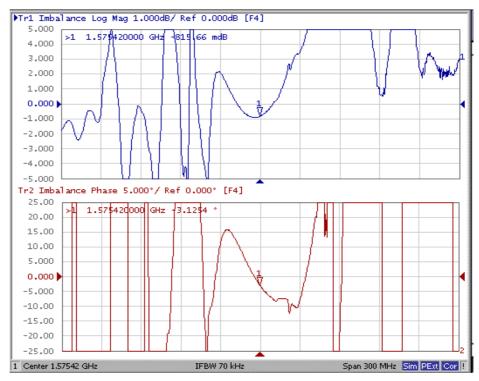
Design No dubw027

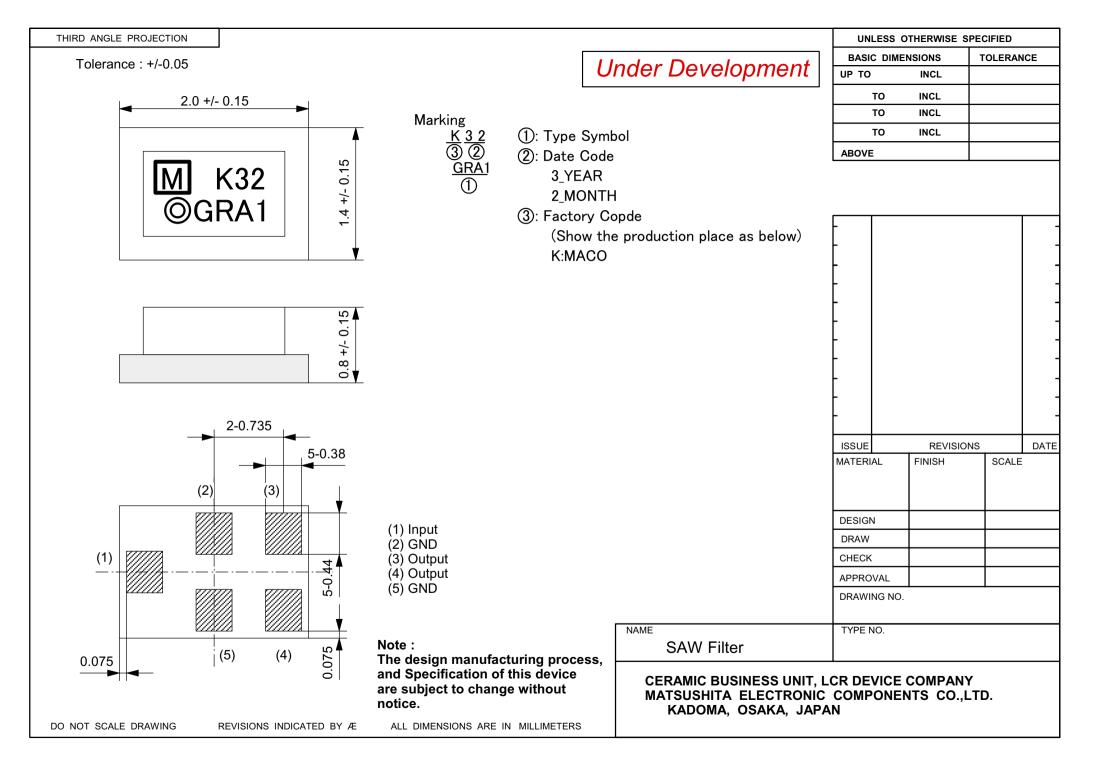


GPS Rx SAW Filter

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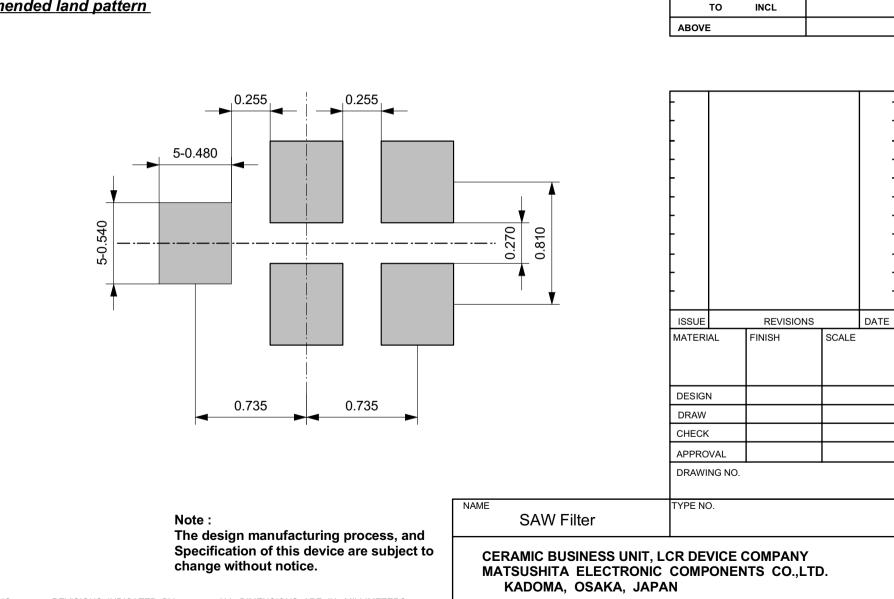




THIRD ANGLE PROJECTION		UNLESS	OTHERWISE S	PECIFIED	
		BASIC DIMENSIONS TOLER		TOLERANCE	
		UP TO	INCL		
		то	INCL		
		то	INCL		
Mesurement Circuit	TO INCL				
		ABOV	E		
<i>1111</i>		·			
$(2) \qquad (3) \qquad \qquad$	S22	F			
Port3					
	O				
S11 Port1 (1)					
	100 ohm				
		-			
	———————————————————————————————————————	-			
(5) (4) Port2		ISSUE	REVISIONS	DATE	
		MATERIAL	FINISH	SCALE	
77777					
1111					
		DESIGN			
		DRAW			
Input impedance:50 Oohm (Single ended)		CHECK			
Output impedance:100 Oohm (Differential)					
	( · · · · · · · /	DRAWING NO.			
	NAME	TYPE			
	NO. SAW filter				
	CERAMIC BUSINESS U	NIT,LCR DE\	ICE COMP	ANY	
	MATSUSHITA ELECTRONIC COMPONENTS CO., LTD.				
		KADOMA, OSAKA, JAPAN			



Recommended land pattern



UNLESS OTHERWISE SPECIFIED

INCL

INCL INCL

TOLERANCE

BASIC DIMENSIONS

то

то

UP TO

DO NOT SCALE DRAWING

REVISIONS INDICATED BY  $\Delta$ ALL DIMENSIONS ARE IN MILLIMETERS