



70.0 MHz CDMA Base Station Saw Filter



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Part Number: AM70S548

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70	-
Insertion Loss at Fo	dB	-	20.1	22.0
Passband Ripple at Fo ± 0.6 MHz	dB	-	0.6	0.8-
Phase Linearity at Fo ± 0.6 MHz	°	-	1.5	5.0
Lower 1.5 dB Point at Fo – 1.5 dB	MHz	-	69.359	69.37
Upper 1.5 dB Point at Fo + 1.5 dB	MHz	70.63	70.647	-
Lower 35 dB Point at Fo – 35 dB	MHz	69.25	69.263	-
Upper 35 dB Point at Fo +35 dB	MHz	-	70.736	70.75
Attenuation at:				
Fo + 1.25 MHz	dB	55	58	-
Fo – 1.25 MHz	dB	55	64	-
Ultimate Rejection at 58.9 ~ 68.9 MHz	dB	48	51	-
Ultimate Rejection at 71.1 ~ 81.9 MHz	dB	48	52	-
Return Loss Input/Output	dB	14	18	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Single Ended) ₁	Ω	-	50	-
Load Impedance (Single Ended) ₁	Ω	-	50	-
Package Size	74.6 x 18.8 x 5.8 mm			



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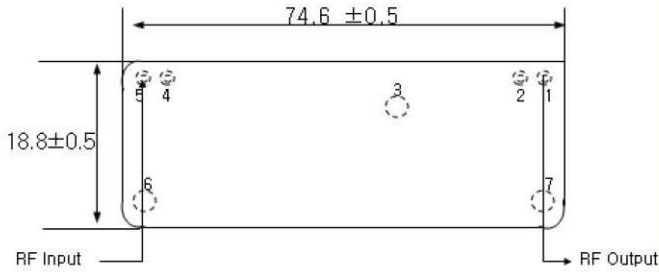
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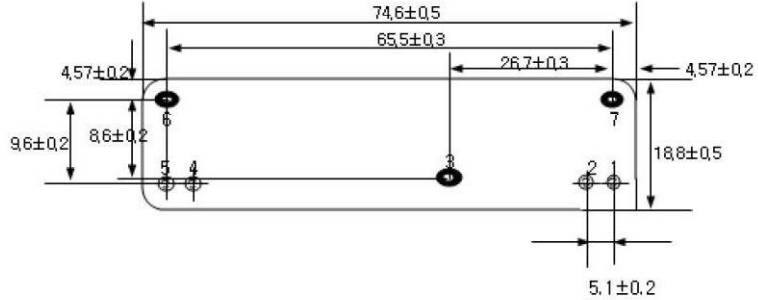
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Outline Drawing:

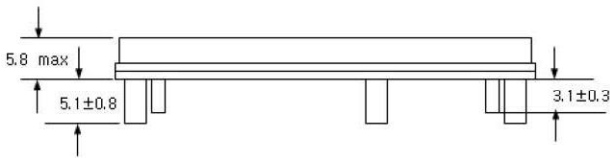
1) Top view



Bottom view



2) Side view



Marking Descriptions :

• : 1st pin Mark

XXXX : Date Code(Year, month, date)

Terminal connection :

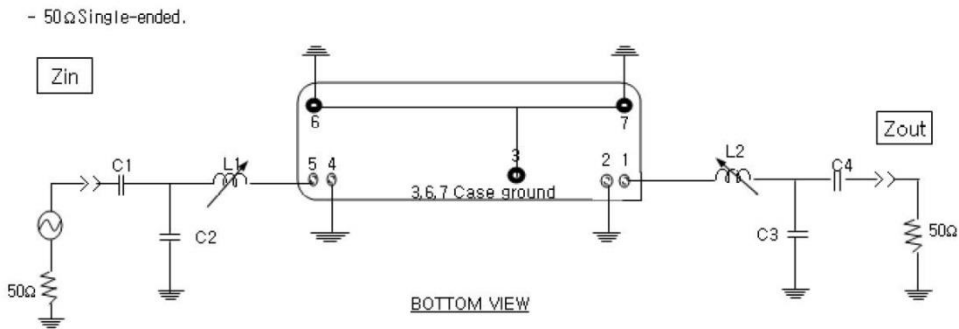
1 – Output +

5 – Input +

2, 4 – Grounded

3, 6, 7 – Case Grounded

Matching Configuration:



L1, L2: 225 ± 5% nH, C1: 20pF, C2: 37pF, C3: 20pF, C4: 9pF



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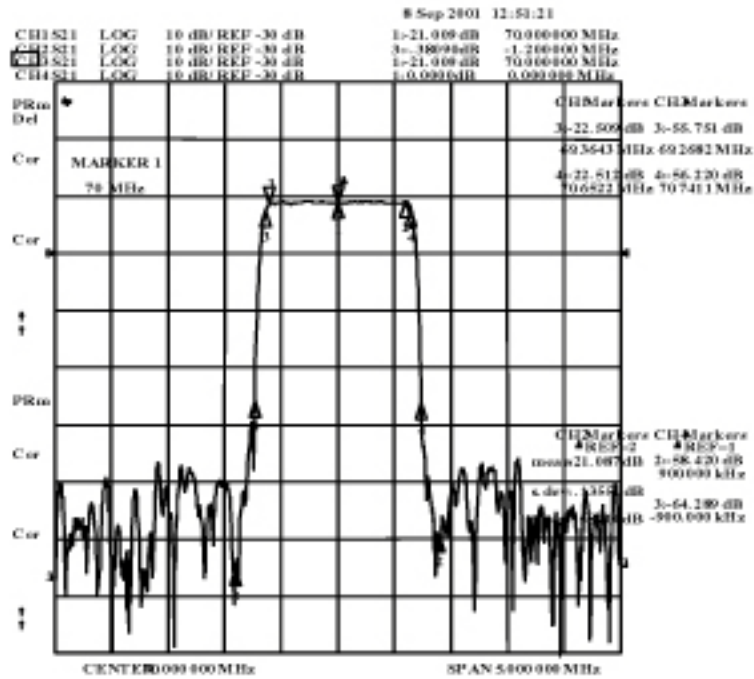
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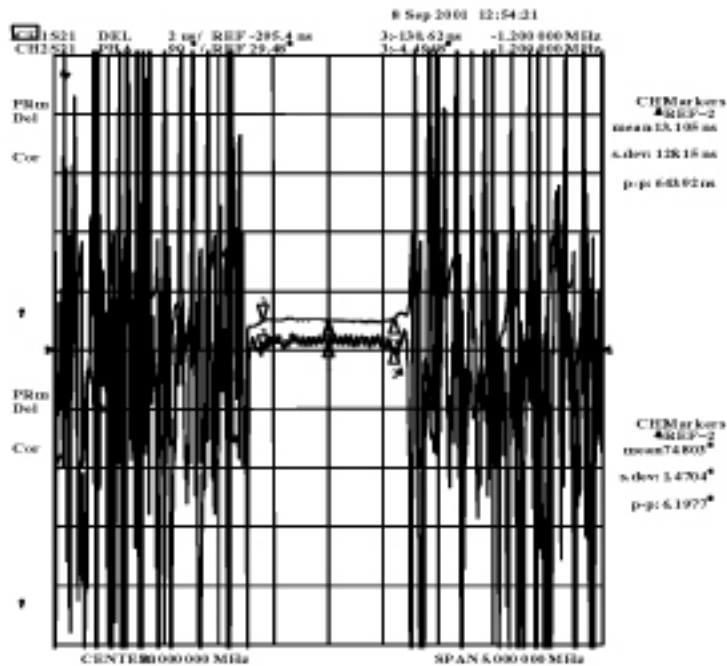


Frequency Characteristics:

S21 Insertion Loss & Ripple



S21 Phase Linearity





Frequency Characteristics:

S11, S22 Return Loss, Impedance chart

