

TMX W607

SAW BandPASS Filter - BASE STATION CDMA - IF
Specification (Rev-)

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May 31st, 2005

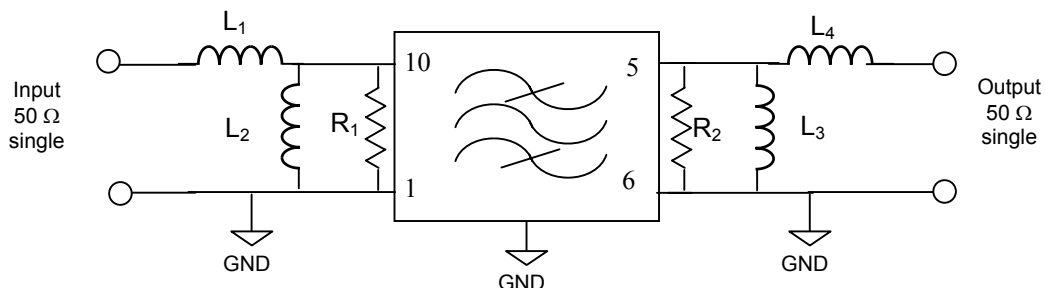
Operating temperature range : [-40°C; +85°C]

Electrical Parameters	Unit	Minimum	Typical	Maximum
Source Impedance (single)	Ω	-	50	-
Load Impedance (single)	Ω	-	50	-
Center Frequency fo	MHz	-	150	-
Bandwidth at -2 dB ⁽¹⁾	MHz	1.23	1.3	-
Template on the amplitude, reference is minimum insertion loss				
Bandwidth at -13.3 dB	MHz	-	1.45	1.6
Bandwidth at -26.6 dB	MHz	-	1.6	1.85
Ultimate rejection	dB	26.6	40	-
Minimum Insertion Loss over Fo \pm 0.615 MHz ⁽²⁾	dB	-	18.5	21
Amplitude ripple within Fo \pm 0.615 MHz	dB _{p-p}	-	1.0	2.0
Phase variation within Fo \pm 0.615 MHz	deg RMS	-	2.2	3.5
Triple Transit suppression	dB	28		
Input and Output return loss at Fo	dB	12	-	-
Package type & size SMP 12				
Length x Width	mm ²	-	24.7 x 9.0	-
Height	mm	-	-	2.34
Pin Out				
Input	10	Output	5	
Input Return	1	Output Return	6	
Case Ground	2, 3, 4, 7, 8, 9	To Be Grounded	1, 2, 3, 4, 6, 7, 8, 9	

Notes :

- (1) Reference is Minimum Insertion Loss
- (2) With external Matching Network
- (3) From 10 to 149 MHz and from 151 to 500 MHz

MATCHING NETWORK FOR 50 Ω SINGLE CONFIGURATION



Temex Test Fixture	Customer PC Board
L ₁ = 120 nH; Q > 45 L ₂ = 68 nH; Q > 45 R ₁ = 1 k Ω	L ₁ = TBD \pm 2%; Q > 45 L ₂ = TBD; Q > 45 R ₁ = TBD
L ₃ = 56 nH; Q > 45 L ₄ = 120 nH; Q > 45 R ₂ = 2.2 k Ω	L ₃ = TBD \pm 2%; Q > 45 L ₄ = TBD; Q > 45 R ₂ = TBD

TBD = To Be Defined on customer PC Board

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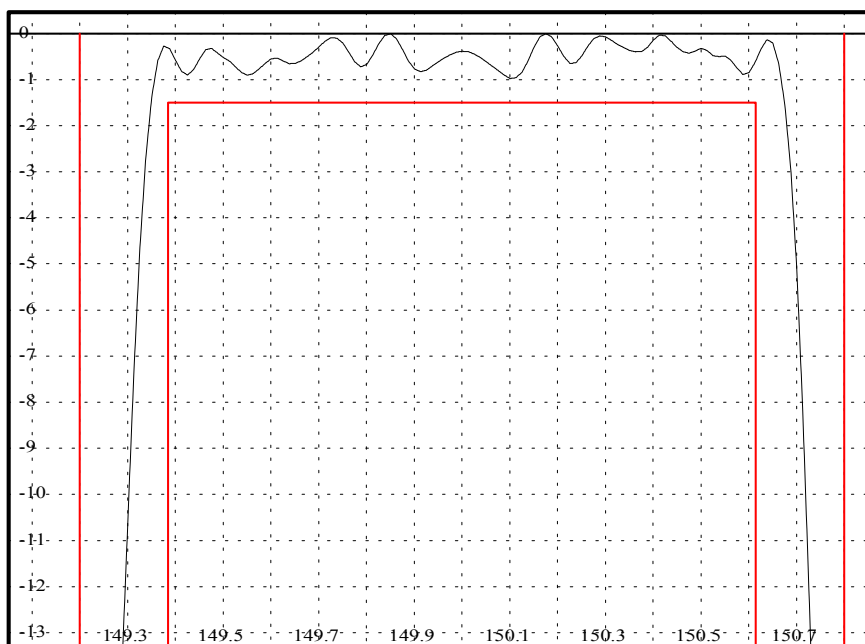
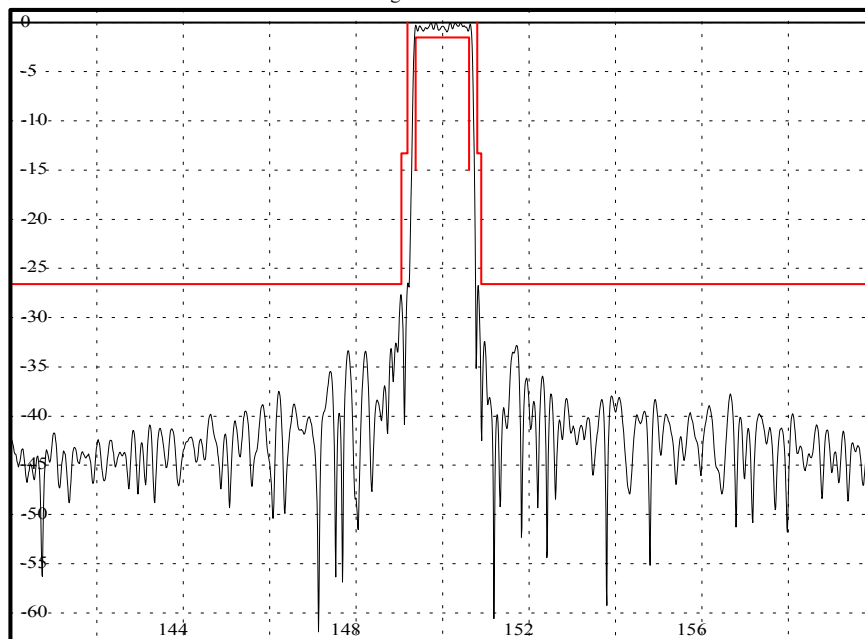
TYPICAL S21 RESPONSE (MEASUREMENT)

References

CENTER FREQUENCY = 150 MHz
 LOSS REFERENCE = 17.38 dB
 DELAY REFERENCE = 4.1 μ s
 PHASE REFERENCE = -130.98 deg

Scales

SCALE_FREQUENCY = 2 MHz/div
 SCALE_AMPLITUDE = 5 dB/div



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PACKAGE DRAWING

