
TMX T513

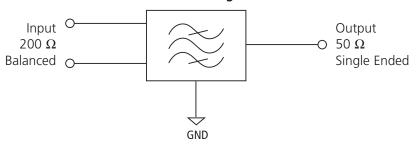
SAW BANDPASS FILTER - BASE STATION - GSM-IF Specification

Operating temperature range:	[-10°C; +85°C]		Minimum	Typical	Maximum
Source impedance (balanced)		Ω		200(2)	
Load impedance (single ended)		Ω		50 ⁽²⁾	
Center frequency F _c		MHz		174.2	
Bandwidth at -0.2 dB at 25°C		MHz	0.2	2.49	
Template on the amplitude, re	eference is loss at Fc				
from 23 MHz to 149 MHz		dB	60	70	
from 149 MHz to 160 MHz		dB	40	55	
from 160 MHz to 168 MHz		dB	20	30	
from 168 MHz to 169.5 MHz		dB	10	30	
from 178.5 MHz to 184 MHz		dB	10	11.5	
from 184 MHz to 195 MHz		dB	20	35	
from 195 MHz to 199 MHz		dB	40	55	
from 199 MHz to 234 MHz		dB	45	50	
from 234 MHz to 246 MHz		dB	35	40	
from 246 MHz to 326 MHz		dB	45	50	
from 326 MHz to 500 MHz		dB	40	50	
Insertion loss at F _C		dB		2.0	3.5
Amplitude variation within $F_c \pm 0.1$ MHz at $25^{\circ}C^{(3)}$		dBp-p		0.1	0.2
Group delay variation within $F_c \pm 0.1$ MHz at 25°C		nsp-p		40	100
Absolute group delay at Fc		ns		280	600
Input and output return loss at F _c at 25°C		dB	9.0		
Package type & size		·			
Length x Width		mm ²		5.0 x 5.0	
Height		mm		1.6	1.8
Pin Out					
Input	2, 3	Output		7	
) 8		Ouput Return		6	
Case Ground	4, 8	To Be Grounded		1, 4, 5, 6, 8	

Notes:

- (1) Typical values are nominal performances at room temperature
- (2) No matching circuit is required
- (3) The amplitude variation is defined as the maximum level minimum level over the given bandwidth

200 Ω / 50 Ω configuration



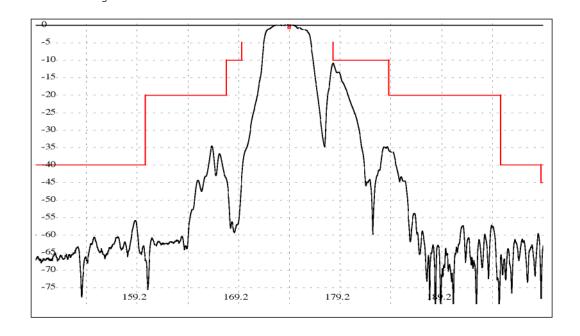
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Specification
TYPICAL S21 RESPONSE

Center frequency = 174.2 MHz
Loss reference = 2.68 dB
Delay reference = 0.29 μ s
Phase reference = 11.73 deg

Scale frequency = 5 MHz/div Scale amplitude = 5 dB/div

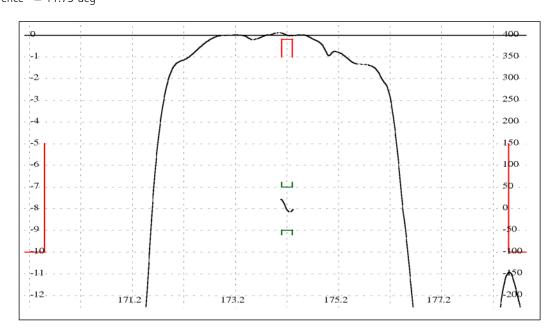


Center frequency = 174.2 MHz
Loss reference = 2.68 dB
Delay reference = 0.29 µs
Phase reference = 11.73 deg

Scale frequency = 1 MHz/div

Scale amplitude = 1 dB/div

Scale phase = 50 deg/div



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Specification

PACKAGE

All dimensions are in mm

