TMX P054

SAW Bandpass Filter
US-PCS – Tx RF

PRELIMINARY SPECIFICATION

All performances include Temperature Variations

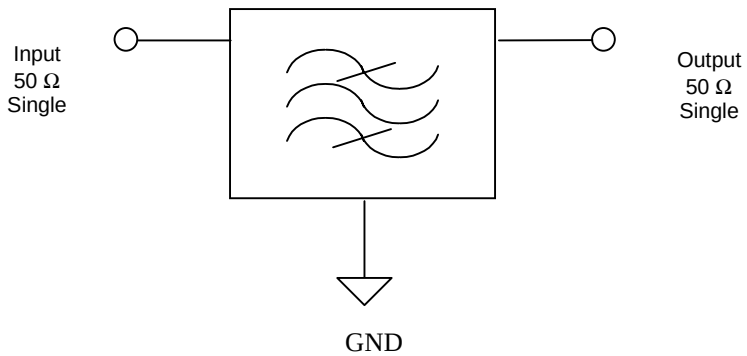
		Minimum	Typical	Maximum
Source Impedance (single)	Ω	-	50	-
Load Impedance (single)	Ω	-	50	-
Operating Temperature Range	°C	-30	-	+85
Center Frequency fo	MHz	-	1880	-
Absolute attenuation				
300 kHz to 1500 MHz	dB	20	26	-
1500 MHz to 1800 MHz	dB	23	27	-
1930 MHz to 1990 MHz	dB	6	18	-
1990 MHz to 2800 MHz	dB	26	31	-
2800 MHz to 3500 MHz	dB	18	22	-
3500 MHz to 5000 MHz	dB	12	16	-
5000 MHz to 6000 MHz	dB	10	15	-
Maximum Insertion Loss in 1850 MHz-1910 MHz	dB	-	2.8	4.0
Amplitude Ripple in 1850 MHz-1910 MHz	dB	-	1.7	3.0
VSWR in 1850 MHz-1910 MHz	-	-	2.1	2.65
Package type & size				
Length x Width	mm²	-	2 x 2	-
Height	mm	-	0.75	0.9

Pin Out

Input	3	**Output**	4
Case Ground	1	**To Be Grounded**	1,2

Notes : No external matching circuit is required

50 Ω / 50 Ω Configuration



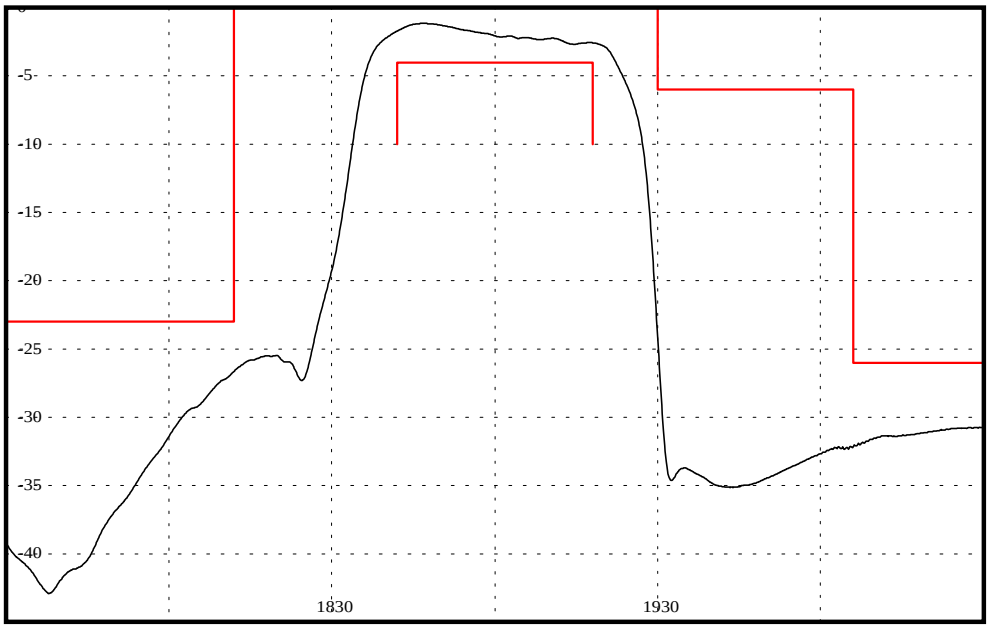
THOMSON MICROSONICS

Thomson Microsonics reserves the right to modify these specifications when necessary to provide optimum performances.

Typical S21 Response

FREQUENCY RESPONSE

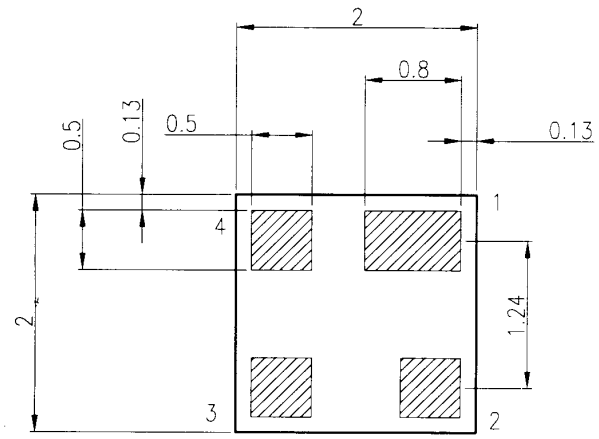
References			Scales		
CENTER FREQUENCY	= 1880	MHz	SCALE_FREQUENCY	= 50	MHz/div
LOSS REFERENCE	= 0	dB	SCALE_AMPLITUDE	= 5	dB/div
DELAY REFERENCE	= 0.1e-01	µs			
PHASE REFERENCE	= -78.14	deg			

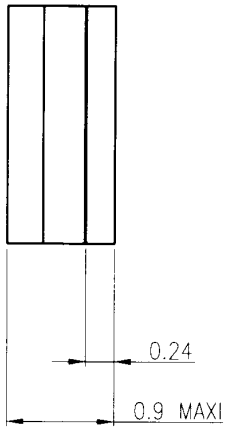


WIDEBAND RESPONSE

References			Scales		
CENTER FREQUENCY	= 3001.5	MHz	SCALE_FREQUENCY	= 500	MHz/div
LOSS REFERENCE	= 0	dB	SCALE_AMPLITUDE	= 2	dB/div
DELAY REFERENCE	= 0	µs			
PHASE REFERENCE	= 0	deg			

SMT Package





BOTTOM VIEW

Tol gen: ±0.15

ALL DIMENSIONS IN mm