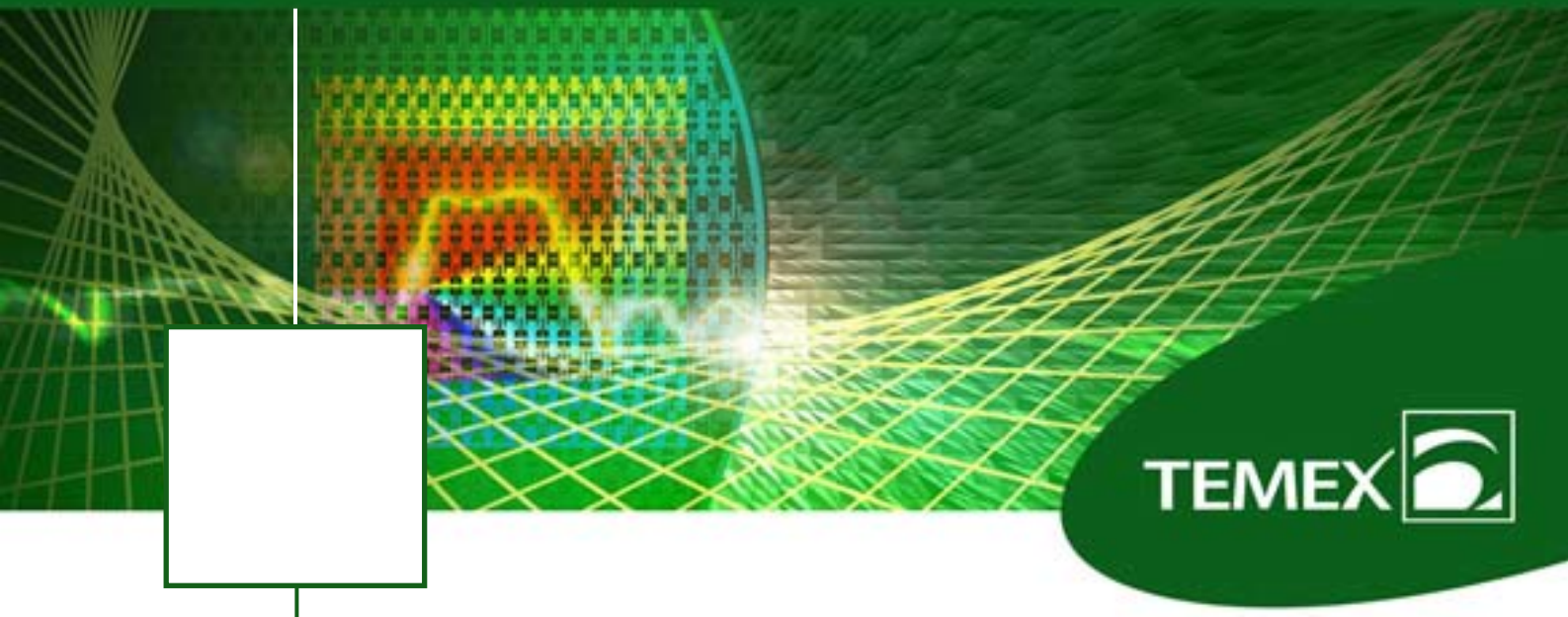


TMX U394

SAW Passband Filter - Remote Control - RF

Preliminary Specification (Rev-1)

TMX U394

SAW Passband Filter – Remote Control - RF

Specification (Rev-1)

February 08th, 2005

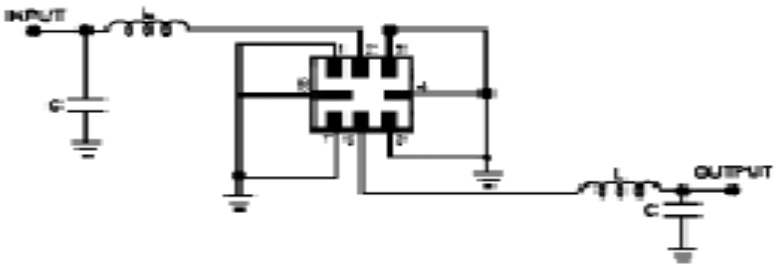
Electrical Parameters	Unit	Minimum	Typical (1)	Maximum
Source Impedance (single ended)	Ω	-	50(2)	-
Load Impedance (single ended)	Ω	-	50(2)	-
Center Frequency fo	MHz	-	868.3	-
Rejection				
At fo – 21.4 MHz (Image)	dB	30	40	-
At fo – 10.7 MHz (LO)	dB	15	30	-
Ultimate	dB	-	60	-
Insertion Loss	dB	-	4.0	5.5
Bandwidth at 3dB	dB	-	1.2	1.5
Temperature				
Turnover Temperature	°C	25	40	55
Turnover Frequency	MHz	-	fo	-
Frequency Temperature Coefficient	ppm/°C²	-	0.032	-
Frequency Aging Absolute Value during the First Year	ppm/yr	-	10	-
Package type & size				
Length x Width	mm²	-	5.0 x 5.0	-
Height	mm	-	1.2	1.35
Pin Out				
Input	2	**Output**	6	
Input Ground	1	**Output Ground**	5	
Case Ground	4, 8	**To Be Grounded**	3, 7	

Notes :

(1) Typical values are nominal performances at room temperature

(2) External matching circuit is required (see drawing hereunder)

50 Ω / 50 Ω CONFIGURATION



C = 4~8 pF and L = 3.0 nH. These components values have to be adjusted to the customer PC Board, due to parasitics inductors and capacitors.

Maximum Ratings

Rating		Unit	Value
Operating Temperature Range	T_A	-40 to +85	°C
Storage Temperature Range	T_{stg}	-40 to +85	°C
DC Voltage	V_{DC}	12	V
Input Power		18	dBm

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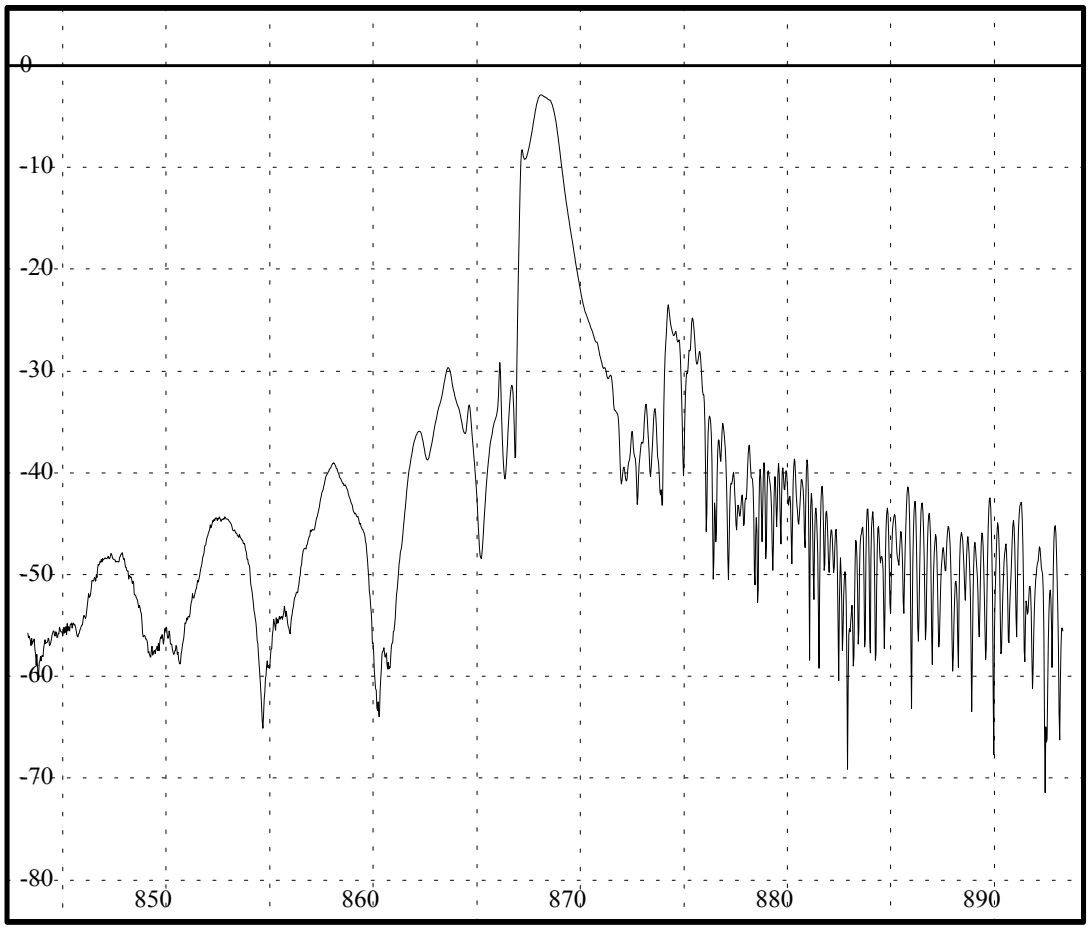
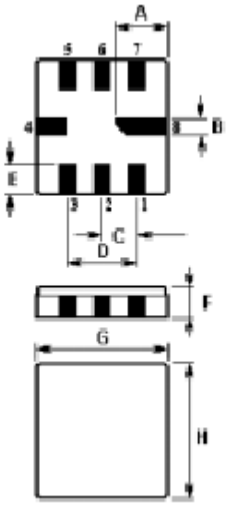
TYPICAL S21 RESPONSE



PACKAGE DRAWING



Sign	Data (unit: mm)	Sign	Data(unit:mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00