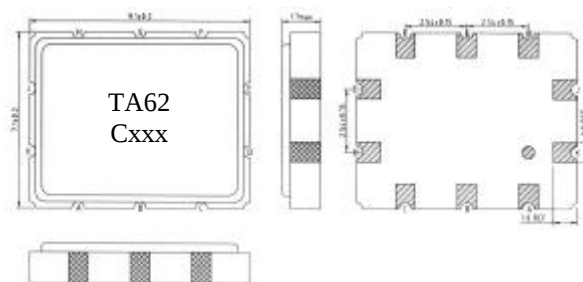


Part Number

TSF0110-L1

110.592MHz SAW Filter DECT and Bluetooth

SPECIFICATION



All Dimensions in mm

Input: G

Output: B

Ground: A, C, D, E, F, H, J, K

PRODUCT FEATURES :

- **HIGH STABILITY**
- **LOW LOSS**
- **SMALL SIZE**

CONTACT :

TEMEX S.A.W.

PUITS-GODET 8,

2000 NEUCHÂTEL

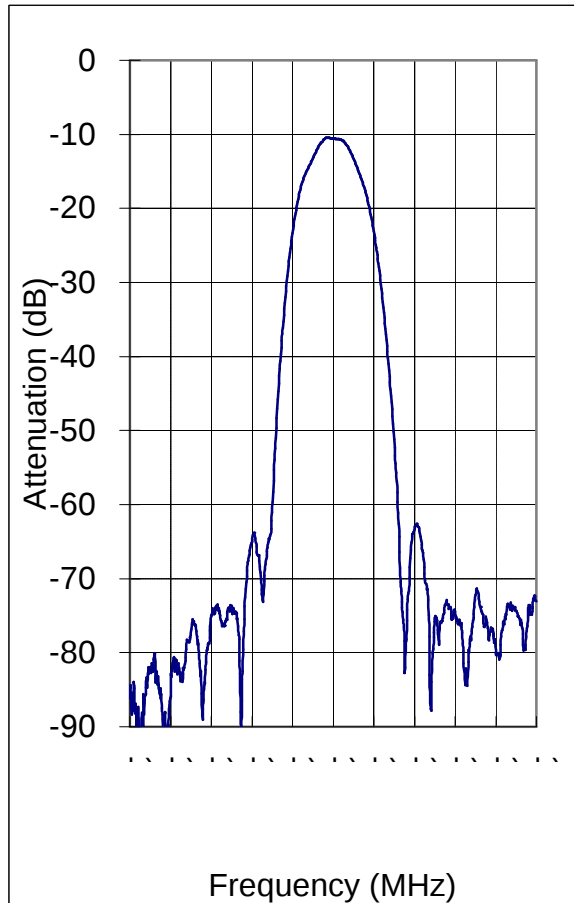
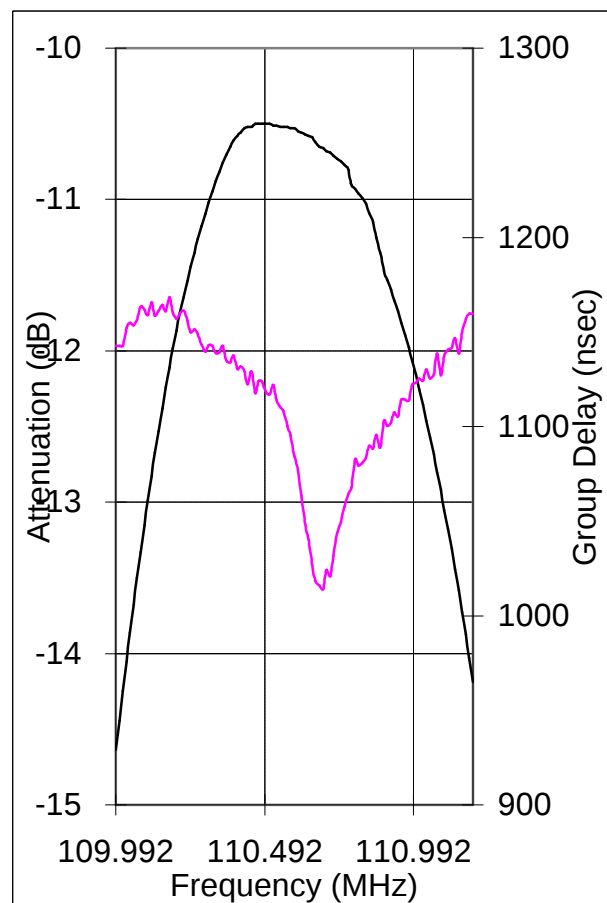
SWITZERLAND

TEL. : ++41 32 722 18 20

FAX : ++41 32 722 18 29

➤ OR CONTACT YOUR TEKELEC TEMEX SALES REPRESENTATIVE

TYPICAL PERFORMANCE (Measurement)



ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Central Frequency	f_0	Nominal		110.592		MHz
3 dB Bandwidth	BW_{3dB}	Nominal	1			MHz
Insertion Loss	IL_{min}	$f_0 \pm 3.1$ MHz			12	dB
Group delay variation		$f_0 \pm 500$ kHz			300	ns
Rejection IL_{min} rel.	Rj_1	$f_0 - 4.608 \dots f_0 - 1.96$ MHz	45			dB
	Rj_2	$f_0 - 1.96 \dots f_0 - 1.738$ MHz	35			dB
	Rj_3	$f_0 - 1.738 \dots f_0 - 1.223$ MHz	13			dB
	Rj_4	$f_0 - 1.223 \dots f_0 - 1.185$ MHz	12			dB
	Rj_5	$f_0 + 1.185 \dots f_0 + 1.223$ MHz	12			dB
	Rj_6	$f_0 + 1.223 \dots f_0 + 1.738$ MHz	13			dB
	Rj_7	$f_0 + 1.738 \dots f_0 + 1.96$ MHz	35			dB
	Rj_8	$f_0 + 1.96 \dots f_0 + 4.608$ MHz	45			dB

OPERATIONAL ENVIRONMENT

Parameter	Conditions	Min	Typ	Max	Unit
Power Dissipation	Maximum			0	dBm
DC Voltage	Maximum			+10	V
Storage Temperature		-40		+85	°C
Operating Temperature	Operational	-10		+50	°C

TEST REQUIREMENT

Test Item	Condition of Test	Requirements
Shock (Drop Test)	Random free drops 3 times from height of 1.0 meter onto concrete floor.	The specimens shall meet the electrical specifications.
Vibration	Total peak amplitude : 1.5 mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 3 mutually perpendicular Duration : 2 hours / direction	
Solderability (Solder Heat)	Immersed pad in soldering bath at $245 \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds.	75% or more of the immersed surface shall be covered with solder.
Temperature Characteristics	Specimens shall be measured within -10°C to $+50^\circ\text{C}$ temperature range.	The specimen shall meet the electrical specifications.
Dry Heat (Aging Test)	Temperature : $125 \pm 2^\circ\text{C}$ Duration : 250 hours	
Cold Resistance	Temperature : $-40 \pm 3^\circ\text{C}$ Duration : 96 hours	
Thermal Shock	Heat cycle conditions -55°C 25°C 85°C (30 min) (5 min) (30 min) Cycle time : 5 times	



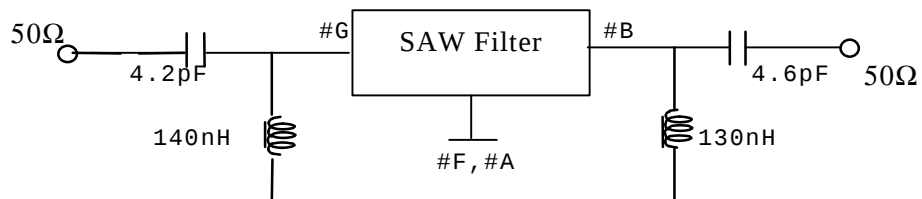
TEMEX
S.A.W.

Flexibility & Innovation ...

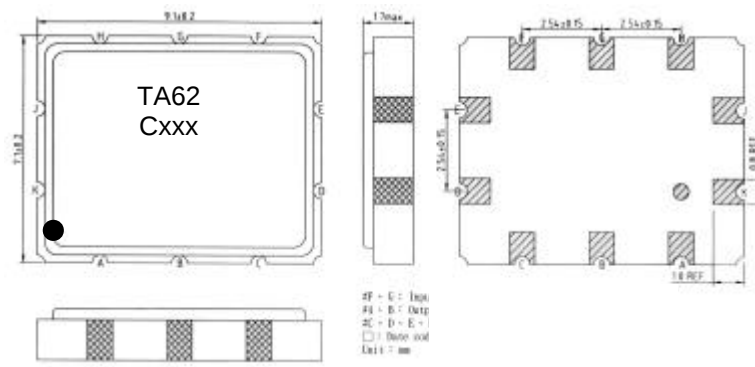
DS0214_01
17.05.01

TEST CIRCUIT

HP Network analyzer



MARKING SPECIFICATION



Where xxx is the lot number