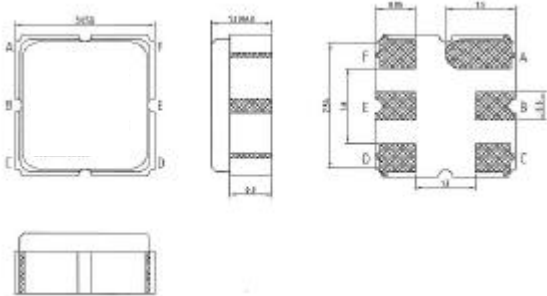


Part Number

TSF0902-L1

902 MHz SAW Filter Mobile communication

SPECIFICATION



All Dimensions in mm

Input: B

Output: E

Unused contacts to be connected to Ground

PRODUCT FEATURES :

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

CONTACT :

TEMEX S.A.W.

PUITS-GODET 8,
2000 NEUCHÂTEL
SWITZERLAND

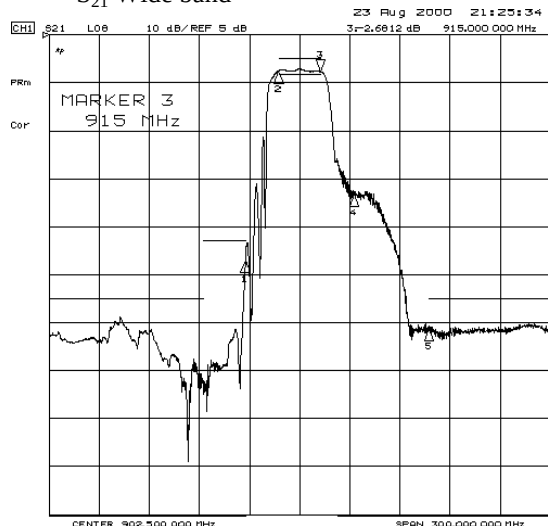
TEL. : ++41 32 722 18 20

FAX : ++41 32 722 18 29

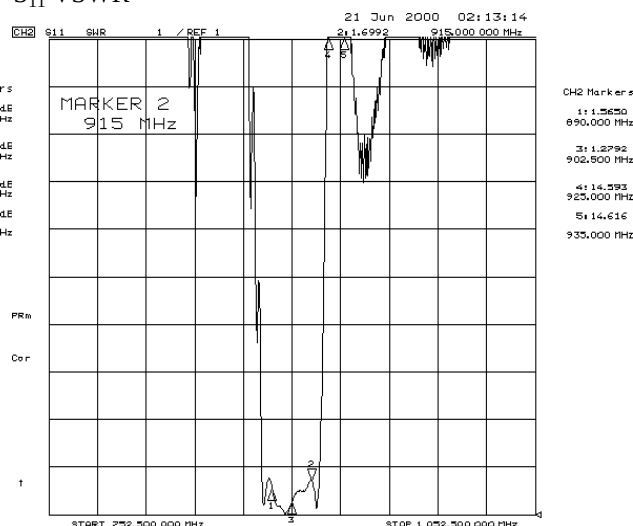
➤ OR CONTACT YOUR TEKELEC TEMEX SALES REPRESENTATIVE

TYPICAL PERFORMANCE (Measurement)

S_{21} Wide band



S_{11} VSWR



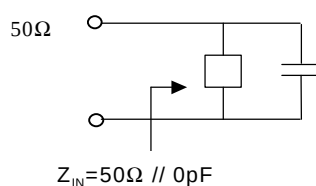
ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Conditions			Min	Typ	Max	Unit
Central Frequency	f_o	Nominal				902.5		MHz
Operational bandwidth	BW_{op}	Nominal			890		915	MHz
Insertion Loss	IL	In BW_{op}				2.8	3.3	dB
VSWR	SWR	In BW_{op}				1.5	2.3	
Amplitude variation	AV	In BW_{op}				0.5	1.4	dB
Rejection wrt 0dB	R_{j1}	DC	...	845	MHz	50	54	dB
	R_{j2}	845	...	870	MHz	38	42	dB

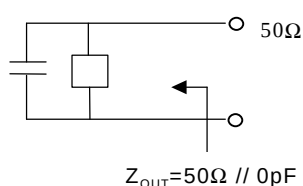
	Rj₃	925	...	935	MHz	5	21		dB
	Rj₄	935	...	980	MHz	25	27.9		dB
	Rj₅	980	...	1200	MHz	50	54.8		dB
	Rj₆	1200	...	3000	MHz	25	27.9		dB
Temperature coefficient							-35		ppm/°C ²
I/P & O/P impedance	Z_{in}/Z_{out}	Unmatched (see note 1)					50		Ω

Note 1:

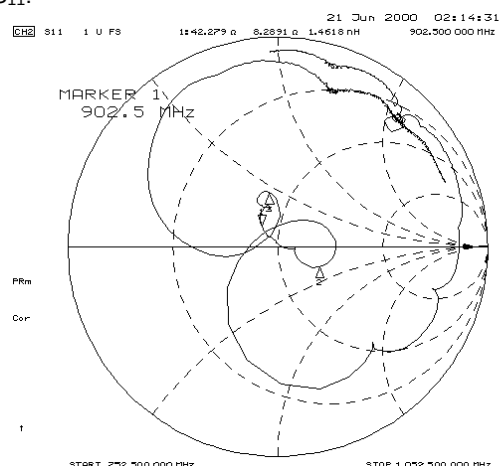
Source impedance



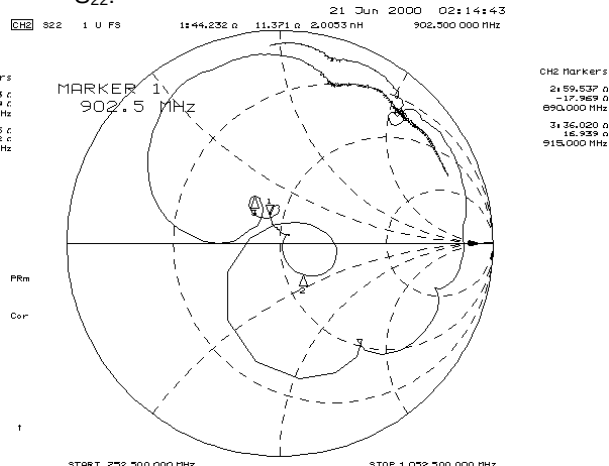
Load impedance



S₁₁:



S₂₂:



OPERATIONAL ENVIRONMENT

Parameter	Conditions	Min	Typ	Max	Unit
Power Dissipation	Maximum			15	dBm
DC Voltage	Maximum	-5		+5	V
Storage Temperature		-40		+100	°C
Operating Temperature	Operational	-30		+85	°C



TEMEX
S.A.W.

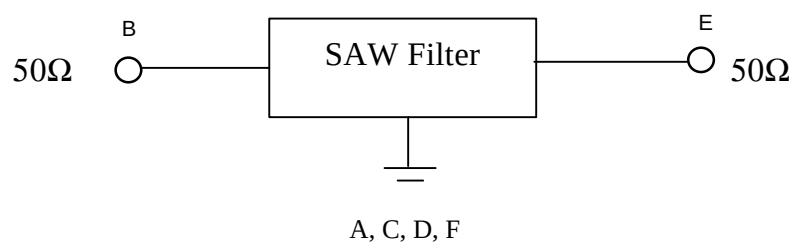
Flexibility & Innovation

DS0211_01
15.05.01

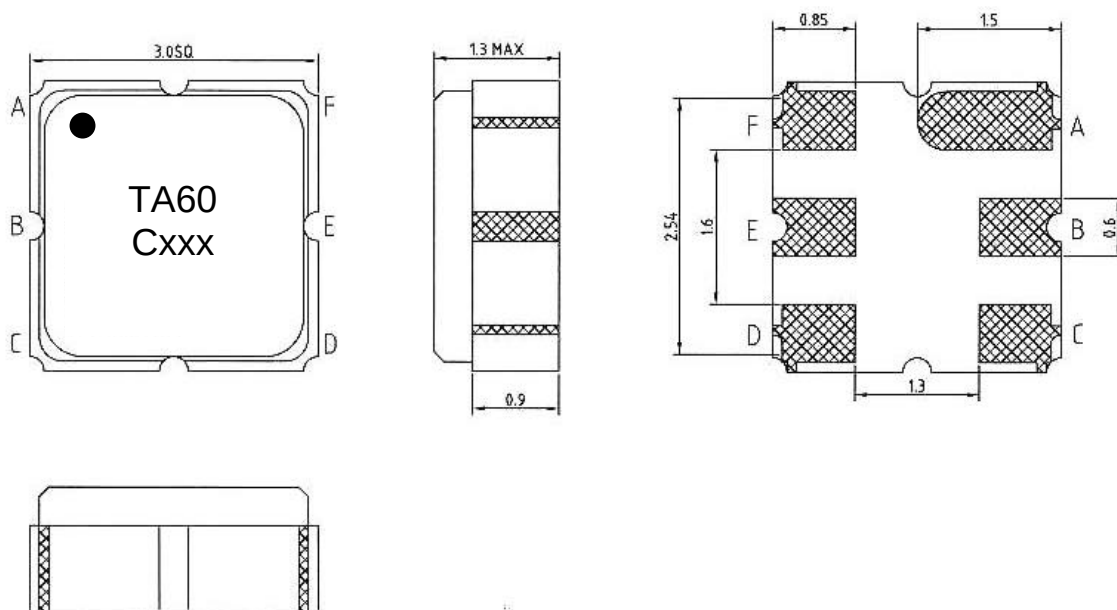
Test Item	Condition of Test	Requirements
Shock (Drop Test)	Random free drops 3 times from height of 1.0 meter onto concrete floor.	The specimens shall meet the electrical specifications.
Vibration	Total peak amplitude : 1.5 mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 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	

TEST CIRCUIT

Network analyzer



MARKING SPECIFICATION



Where xxx is the lot number