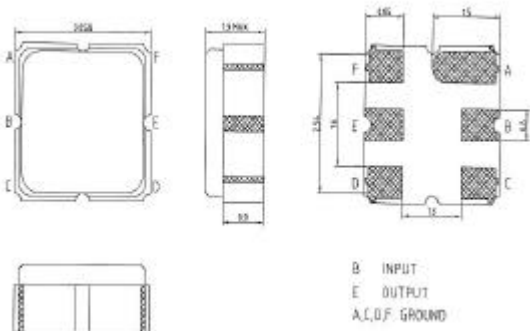


Part Number

TSF1842-L1

1842.5 MHz SAW Filter Mobile communication

SPECIFICATION



All Dimensions in mm

Input: B

Output: E

Ground: A, B, C, D, F

PRODUCT FEATURES :

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

CONTACT :

TEMEX S.A.W.

PUITS-GODET 8,

2000 NEUCHÂTEL

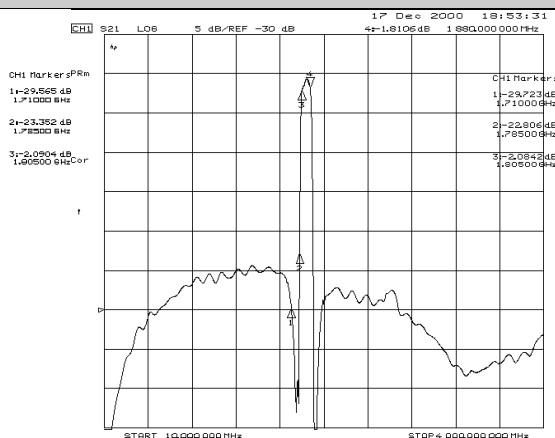
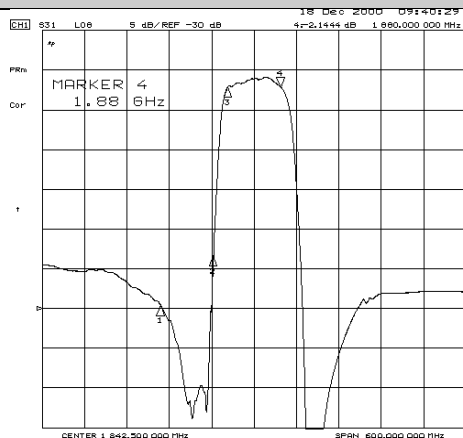
SWITZERLAND

TEL. : ++41 32 722 18 20

FAX : ++41 32 722 18 29

➤ OR CONTACT YOUR TEKELEC TEMEX SALES REPRESENTATIVE

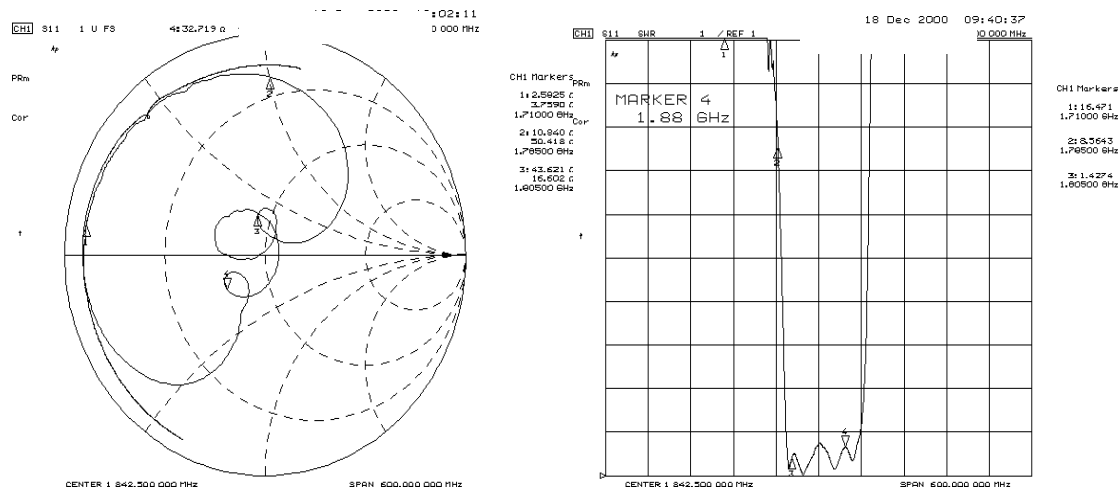
TYPICAL PERFORMANCE (Measurement)



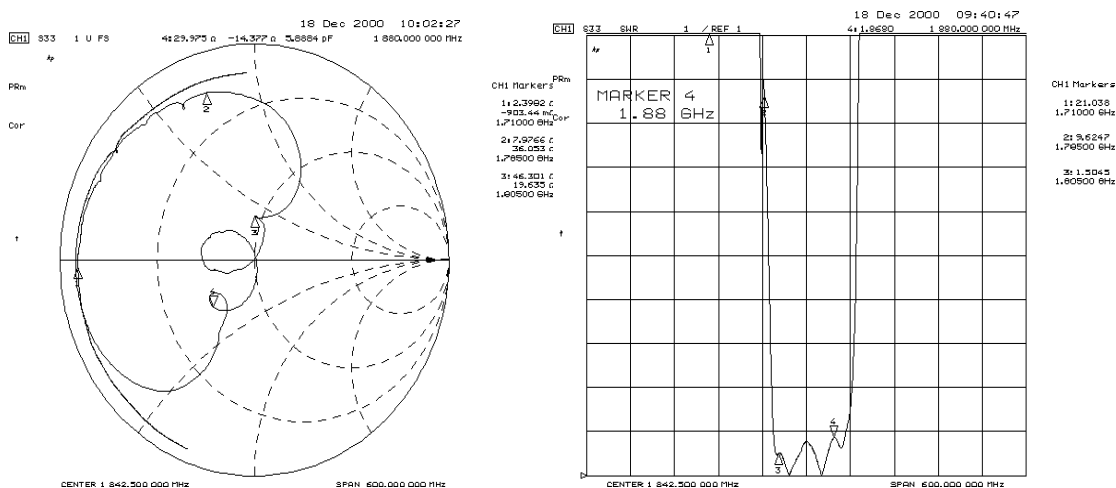
ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Conditions				Min	Typ	Max	Unit
Central Frequency	f_o	Nominal					1842.5		MHz
Operational bandwidth	BW_{op}	Nominal				1805		1880	MHz
Insertion Loss	IL	In BW_{op}					2.2	3.8	dB
Amplitude variation	AV	In BW_{op}					1.3	2.3	dB
VSWR	SWR	In BW_{op}					1.9	2.6	
Rejection wrt 0dB	R_{j1}	DC	...	1500	MHz	20.0	24.5		dB
	R_{j2}	1600	...	1710	MHz	22.0	25.0		dB
	R_{j3}	1710	...	1785	MHz	10.0	23.5		dB
	R_{j4}	1920	...	3120	MHz	25.0	28.0		dB
	R_{j4}	3120	...	4000	MHz	17.0	30.0		dB
I/P & O/P impedance	Z_{in}/Z_{out}	Unmatched					50		Ω

S₁₁ VSWR :



S₂₂ VSWR :

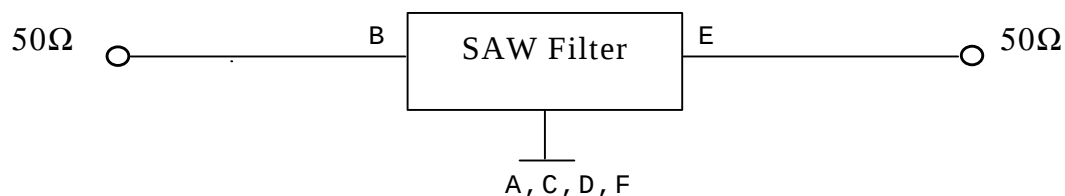


OPERATIONAL ENVIRONMENT

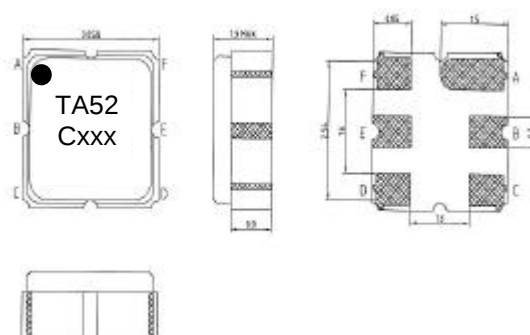
Parameter	Conditions	Min	Typ	Max	Unit
Power Dissipation	Maximum			13	dBm
DC Voltage	Maximum		0		V
Storage Temperature		-40		+85	°C
Operating Temperature	Operational	-30		+85	°C

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		

HP Network analyzer



MARKING SPECIFICATION



Where xxx is the lot number