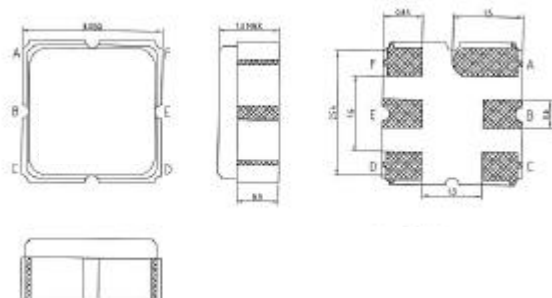


Part Number

947.50 MHz SAW Filter

TSF0947-L2

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.

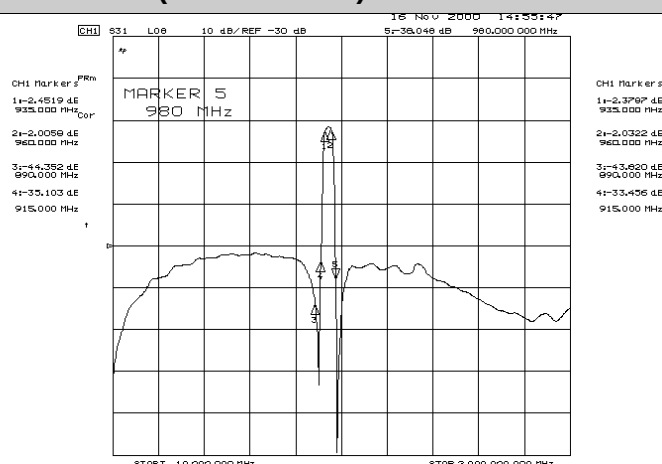
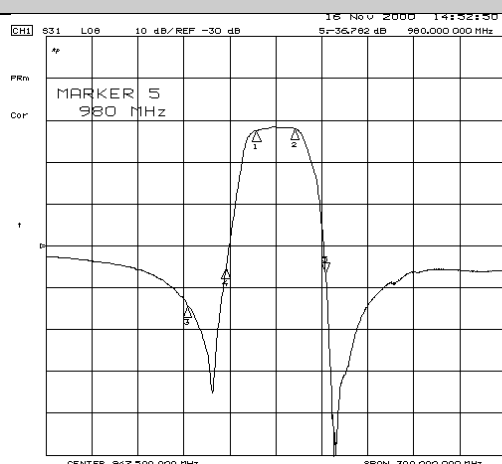
PUITS-GODET 8,
2000 NEUCHÂTEL
SWITZERLAND

TEL. : ++41 32 722 18 20

FAX : ++41 32 722 18 29

➤ OR CONTACT YOUR TEKELEC TEMEX SALES REPRESENTATIVE

TYPICAL PERFORMANCE (Measurement)



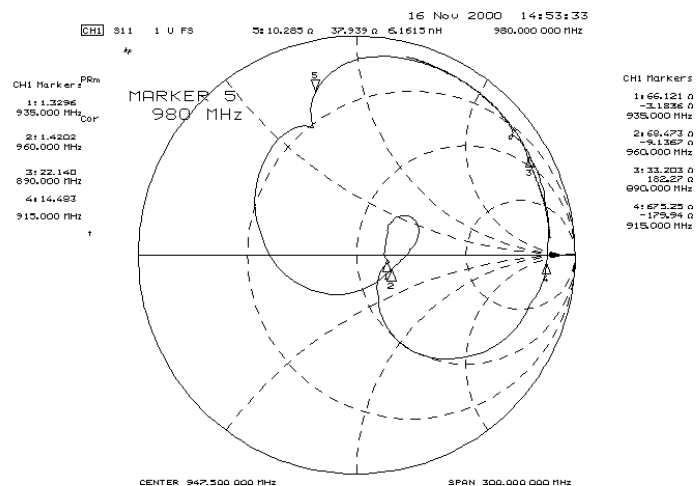
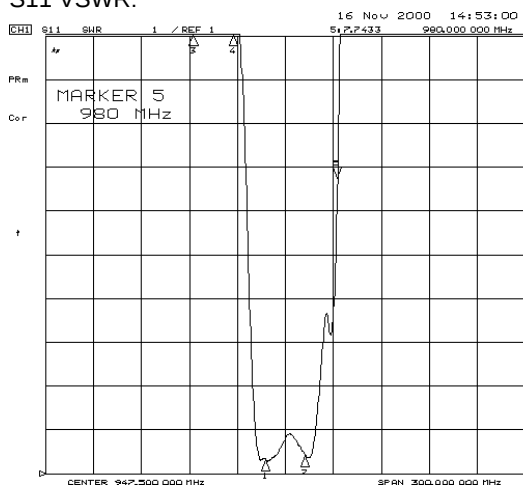
ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Conditions				Min	Typ	Max	Unit
Center Frequency	f_0	Nominal					947.5		MHz
Operating band	BW_{op}	Nominal				935		960	MHz
Insertion Loss	IL	In BW_{op}					2.7	3.5	dB
Amplitude variation	A_v	In BW_{op}					0.6	1.4	dB
VSWR	SWR	In BW_{op}					1.6	2.3	
Rejection wrt 0dB	R_{j1}	DC	...	871	MHz	50	62.1		dB
	R_{j2}	890	...	915	MHz	30	43.9		dB
	R_{j3}	980	...	1025	MHz	25	28.6		dB
	R_{j4}	1025	...	2000	MHz	45	54.1		dB
	R_{j4}	2000	...	3000	MHz	20	26.8		dB
I/p & O/P impedance	Z_{in}/Z_{out}	Unmatched					50		Ohm

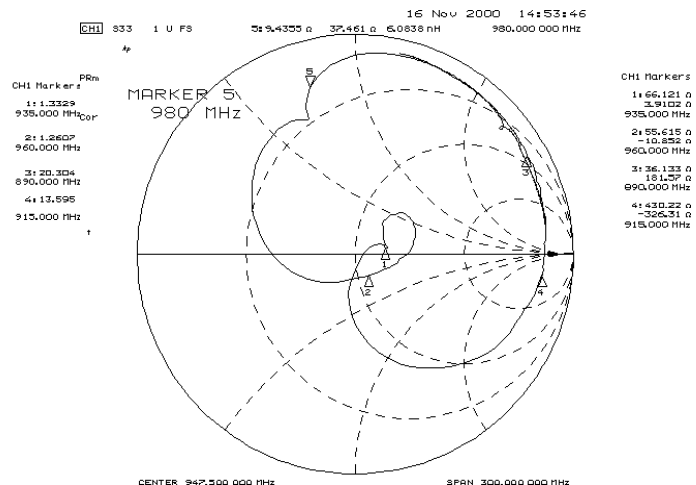
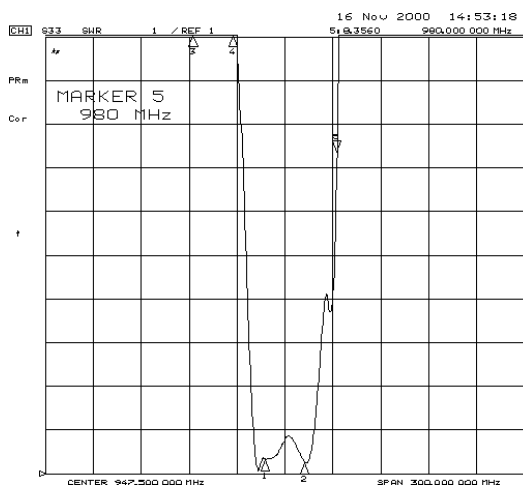
OPERATIONAL ENVIRONMENT

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Power Dissipation		Maximum			10	DBm
DC Voltage		Maximum			0	V
Storage Temperature			-40		+85	°C
Operating Temperature		Operational	-30		+85	°C

S11 VSWR:



S22 VSWR:





TEMEX
S.A.W.

Flexibility & Innovation

DS0196_02
14.05.01

Test Item	Condition of Test	Requirements
Shock (Drop Test)	Random free drops 3 times from height of 0.75 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	



Source impedance

50Ω

$Z_{IN} = 50\Omega // 0pF$

Load impedance

50Ω

$Z_{OUT} = 50\Omega // 0pF$

Where xxx is the lot number