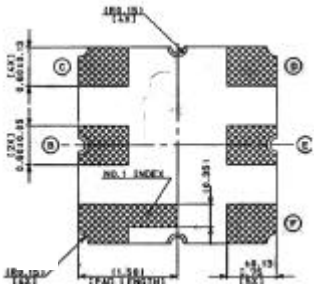
DATA SHEET

DS0315_02
14.05.02

TSF1575-03 1575.42 MHz GPS SAW FILTER

PRELIMINARY SPECIFICATION

PACKAGE 3X3 MM SMD



Down side view
All Dimensions in mm, B- Input, E- Output
Unused contacts to be connected to Ground

PRODUCT FEATURES :

- **LOW LOSS**
- **HIGH REJECTIONS**
- **SMALL SMD PACKAGE**

CONTACT : **TEMEX S.A.W.**
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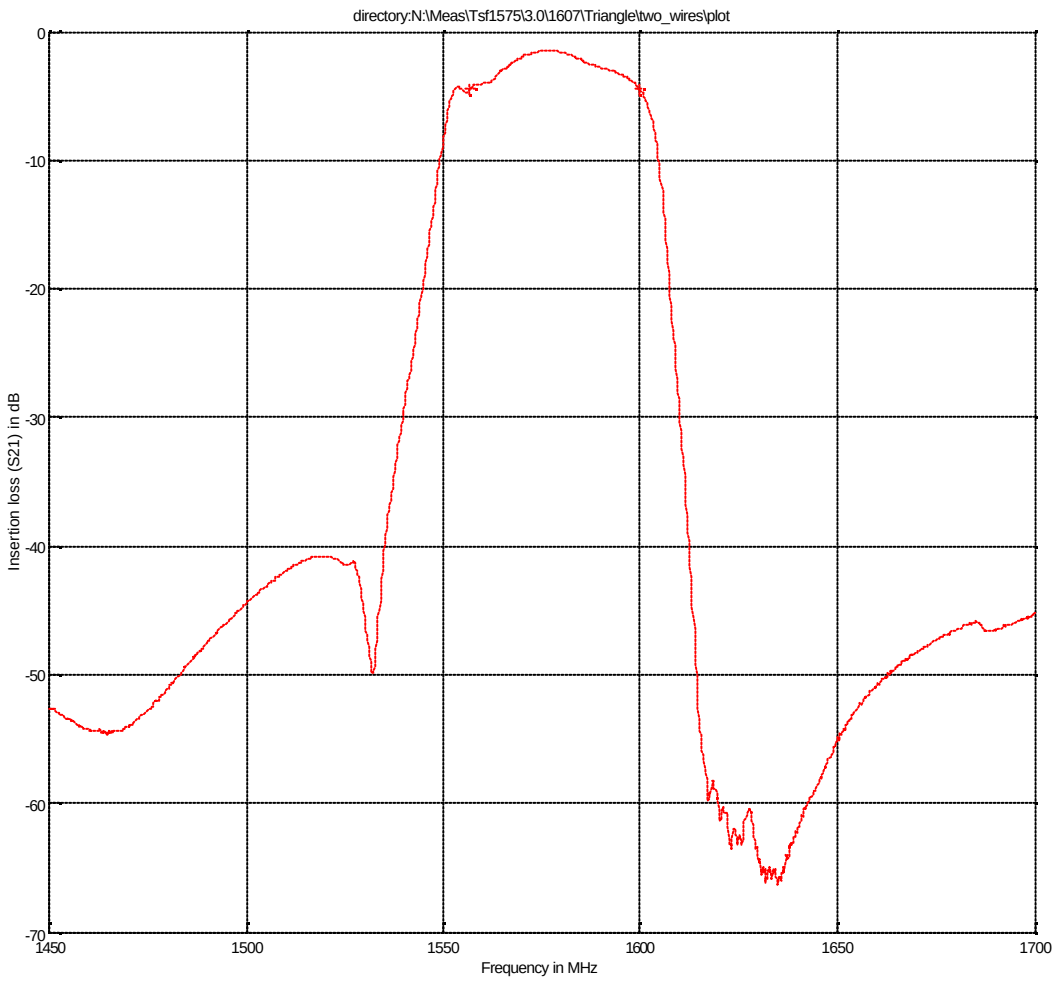
OR CONTACT YOUR TEKELEC TEMEX SALES REPRESENTATIVE

TYPICAL PERFORMANCE (Measurement)



DATA SHEET

ELECTRICAL CHARACTERISTICS										
Parameter	Symbol	Conditions				Min	Typ	Max	Unit
Centre frequency							1575.42		MHz
Operational Bandwidth	? f_{Op}					1574.22		1576.62	MHz
Insertion Loss	IL	In ? f_{Op}					1.45	1.9	dB
Amplitude Variation	AV	In ? f_{Op}					0.2	0.5	dB
VSWR	SWR	In ? f_{Op}					1.3	2	
Rejections wrt 0 dB	Rj_1	0.3	...	700	MHz	40	45		dB
in T_{0p}	Rj_2	700	...	1460	MHz	37	40.5		dB
	Rj_3	1460	...	1470	MHz	45	50		dB
	Rj_4	1470	...	1525	MHz	37	43		dB
	Rj_5	1525	...	1535.42	MHz	20	25		dB
	Rj_6	1615.42	...	1620	MHz	25	35		dB
	Rj_7	1620	...	1650	MHz	45	50		dB
	Rj_8	1650	...	3000	MHz	40	45		dB
Temperature Range	T_{0p}	Operational				-40	20	85	°C
RF Power	Pmax	In ? f_{Op}						10	dBm
I/p & O/P impedance	Z_{in}/Z_{out}	Unmatched					50		Ohm

ELECTRICAL CHARACTERISTICS										
Parameter	Symbol	Conditions				Min	Typ	Max	Unit
Centre frequency							1575.42		MHz
Operational Bandwidth	? f_{Op}					1574.22		1576.62	MHz
Insertion Loss	IL	In ? f_{Op}					1.4	1.8	dB
Amplitude Variation	AV	In ? f_{Op}					0.2	0.5	dB
VSWR	SWR	In ? f_{Op}					1.3	2	
Rejections wrt 0 dB	Rj_1	0.3	...	700	MHz	40	45		dB
in 21±5°C	Rj_2	700	...	1460	MHz	37	40.5		dB
	Rj_3	1460	...	1470	MHz	45	50		dB
	Rj_4	1470	...	1525	MHz	40	45		dB
	Rj_5	1525	...	1535.42	MHz	23	30		dB
	Rj_6	1615.42	...	1620	MHz	30	40		dB
	Rj_7	1620	...	1650	MHz	45	50		dB
	Rj_8	1650	...	3000	MHz	40	45		dB
Temperature Range	T_{0p}	Operational				-40	20	85	°C
RF Power	Pmax	In ? f_{Op}						10	dBm
I/p & O/P impedance	Z_{in}/Z_{out}	Unmatched					50		Ohm