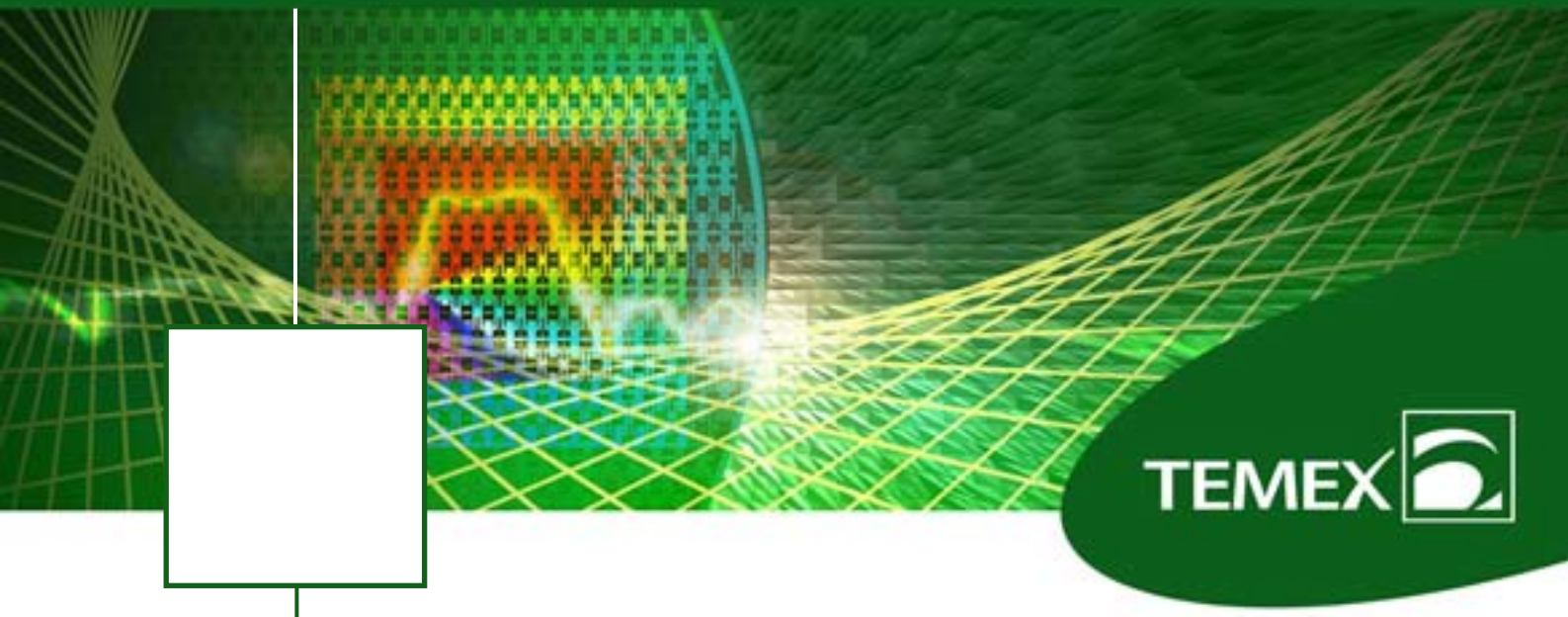

TMX W414

SAW Bandpass Filter – DVB-C

Preliminary Specification (Rev-1)

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Preliminary Specification (Rev 1)

May 25th, 2005

Reference Temperature: +25°c

Electrical Parameters	Unit	Minimum	Typical	Maximum
Source Impedance (single ended)	Ω	-	50	-
Load Impedance (balanced drive)	Ω / pF	-	2000 // 3.0	-
Center Frequency fo (center between 3dB points)	MHz	36.070	36.125	36.180
Relative Attenuation α_{rel}				
32.32 MHz	dB	-	1.2	-
39.93 MHz	dB	0.1	1.1	2.1
32.13 MHz	dB	1.9	3.1	2.1
40.13 MHz	dB	2.0	3.2	4.4
31.25 MHz	dB	35	50	-
47.25 MHz	dB	42	50	-
25.00 … 31.25 MHz	dB	32	40	-
40.90 … 50.00 MHz	dB	30	38	-
Insertion attenuation IL Reference level for the following data 36.125MHz	dB	18.8	20.3	21.8
Pass bandwidth $\alpha_{rel} \leq$ 1dB BW_{1dB} $\alpha_{rel} \leq$ 3dB BW_{3dB} $\alpha_{rel} \leq$ 30dB BW_{30dB}	 MHz MHz MHz	 - - -	 7.5 8.0 8.4	 - - -
Temperature coefficient of frequency TC_f	Ppm/K	-	-72	-
Package type			SIP5D	

Maximum Ratings

Rating		Unit	Value
Operable Temperature Range	T_A	-20 to +65	°C
Storage Temperature Range	T_{stg}	-40 to +85	°C
DC Voltage (between any terminals)		5	V
AC Voltage (between any terminals)	V_{PP}	10	V

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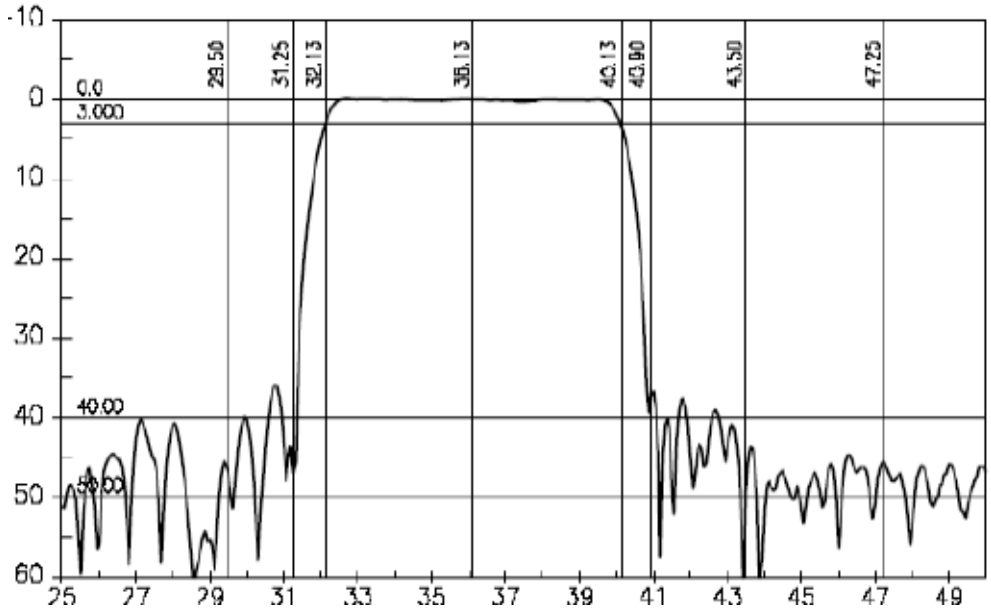
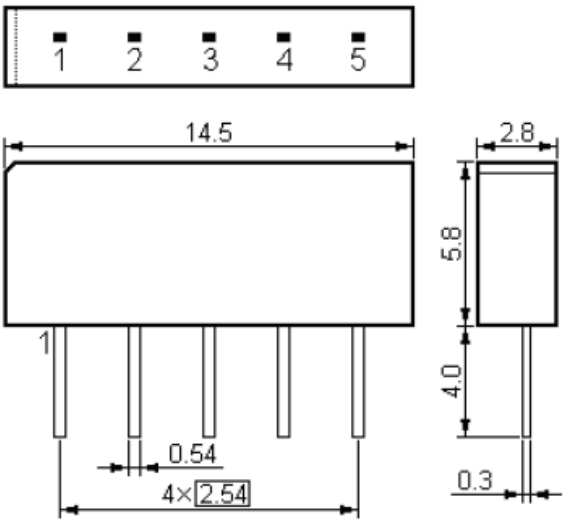
TYPICAL S21 RESPONSE



PACKAGE DRAWING



1	Input
2	Input - ground
3	Chip carrier - ground
4	Output
5	Output

Plastic Package **SIP5D**

Unit: mm