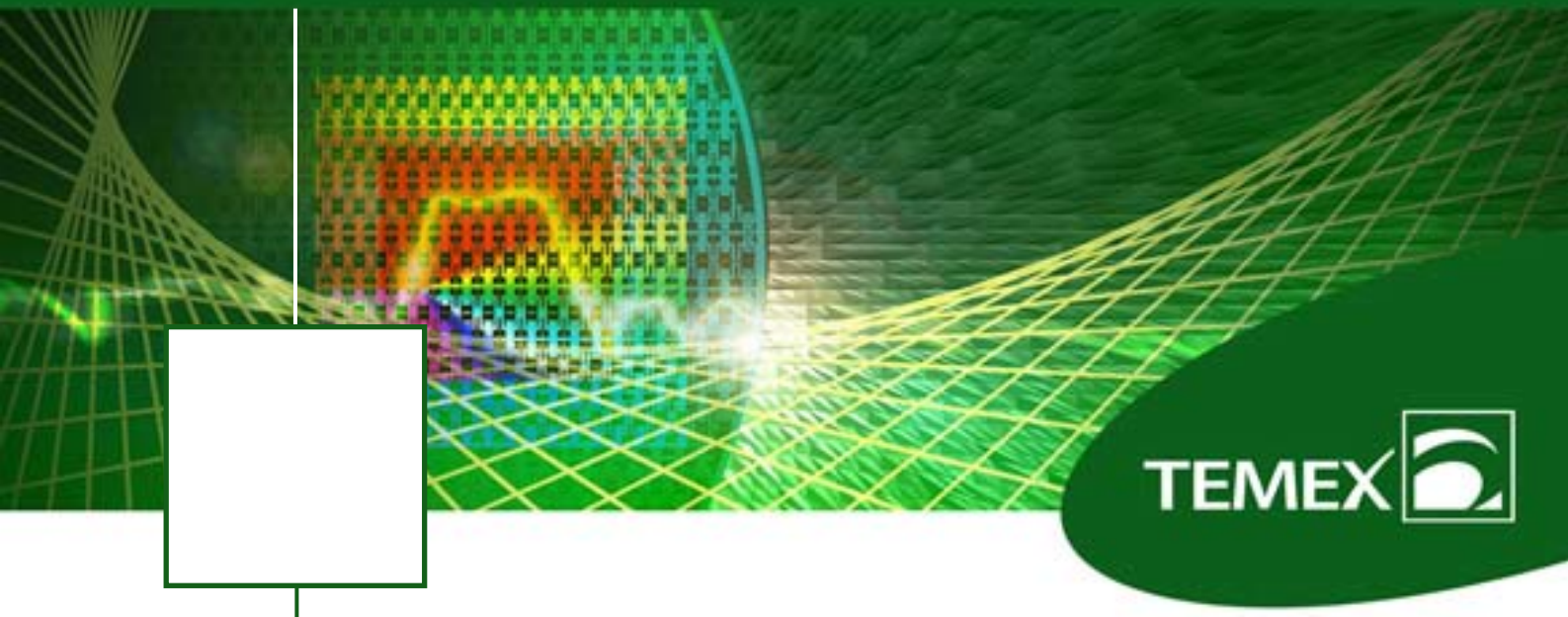
SAW Filters



TMX W413

SAW Bandpass Filter – Europe DVB-C

Specification (Rev-4)

TMX W413

SAW Bandpass Filter – EUROPE DVB-C

Specification (Rev-4)

October 29th, 2009

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	-	36.125	-
Relative Attenuation α_{rel}				
31.30 MHz	dB	21.5	24.5	-
31.65 MHz	dB	7	8.7	-
40.35 MHz	dB	7	10.7	-
40.70 MHz	dB	21	27	-
25.00 … 31.00 MHz	dB	33	38	-
41.00 … 45.00 MHz	dB	31	36	-
Insertion attenuation IL Reference level for the following data 36.125 MHz	dB	21.1	22.6	24.1
Pass bandwidth $\alpha_{rel} \leq$ 1.5dB $BW_{1.5dB}$ $\alpha_{rel} \leq$ 3dB BW_{3dB} $\alpha_{rel} \leq$ 15dB BW_{15dB} $\alpha_{rel} \leq$ 30dB BW_{30dB}	 MHz MHz MHz MHz	 - - - -	 7.8 8.1 9.0 9.5	 - - - -
Amplitude Ripple 32.65….39.60MHz	dB	-	1.0	-
Reflected Wave Signal Suppression 1.2µs….6.0µs after the main pulse (test pulse 250ns, carrier frequency 36.125MHz)	dB	42	46	-
Feed Through Signal Suppression 1.2µs….1.1µs before the main pulse (test pulse 250ns, carrier frequency 36.125MHz)	dB	50	56	-
Group Delay ripple (p-p) Aperture 62.5kHz 32.35……39.65 MHz	ns	-	40	-
Temperature coefficient of frequency TC_f	ppm/K	-	- 72	-
Impedance at 36.125MHz **Input** **Ouput**	 kΩ // pf kΩ // pf	 - -	 4.0 // 11.2 3.5 // 3.0	 - -
Package type		SIP5D		

Maximum Ratings

Rating		Unit	Value
Operable Temperature Range	T_A	-25 to +65	°C
Storage Temperature Range	T_{stg}	-40 to +85	°C
DC voltage (Between any terminals)		12	V
AC voltage (Between any terminals)		10	V

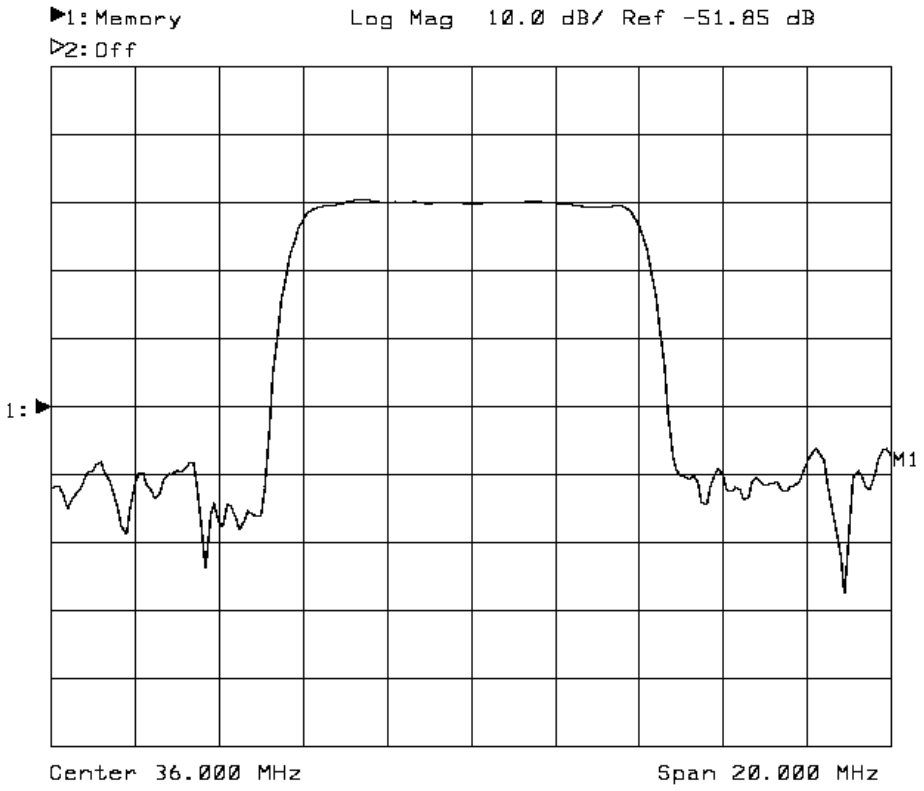
TMX W413

SAW Bandpass Filter – EUROPE DVB-C

Specification (Rev-4)

October 29th, 2009

TYPICAL S21 RESPONSE



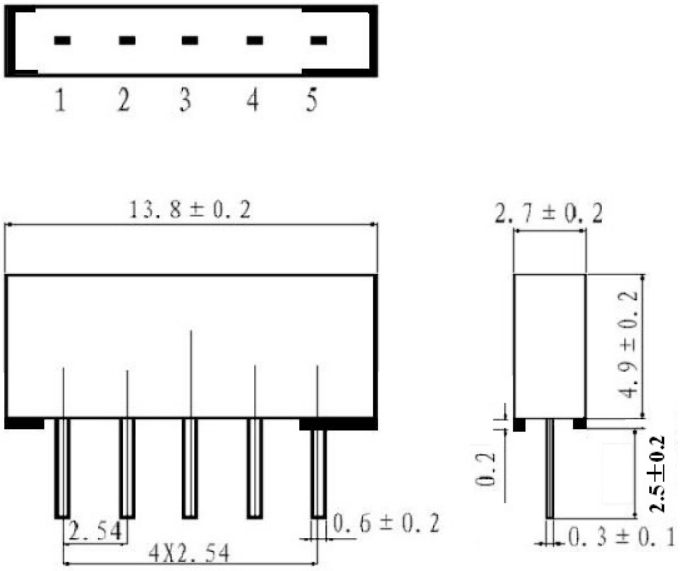
TMX W413

SAW Bandpass Filter – EUROPE DVB-C

Specification (Rev-4)

October 29th, 2009

PACKAGE DRAWING



Pin No. Functions

1. Input
2. Input- Ground
3. Ground
4. Output
5. Output