

TMX W411

SAW Bandpass Filter – Europe DVB-C
Preliminary Specification (Rev-2)

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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	-
Center Frequency f_0 (center between 3dB points)	MHz	-	36.125	-
Relative Attenuation α_{rel}				
33.08 MHz	dB	-0.6	0.6	1.8
39.17 MHz	dB	-0.9	0.3	1.5
32.63 MHz	dB	2.4	3.6	4.8
39.63 MHz	dB	2.6	3.8	5.0
25.00 ... 31.65 MHz	dB	36	44	-
40.65 ... 45.00 MHz	dB	36	44	-
Insertion attenuation IL Reference level for the following data 36.125 MHz	dB	17.7	19.2	20.7
Pass bandwidth				
$\alpha_{\text{rel}} \leq 3\text{dB } BW_{3\text{dB}}$	MHz	6.6	6.8	7.0
$\alpha_{\text{rel}} \leq 30\text{dB } BW_{30\text{dB}}$	MHz	8.2	8.4	8.6
Reflected Wave Signal Suppression 1.1 μs ...6.0 μs after the main pulse (test pulse 250ns, carrier frequency 36.125MHz)	dB	42	52	-
Feedthrough Signal Suppression 1.2 μs ...1.1 μs before the main pulse (test pulse 250ns, carrier frequency 36.125MHz)	dB	50	56	-
Group Delay ripple (p-p) 32.63.....39.63 MHz	ns	-	40	-
Impedance at 36.13MHz				
Input	k Ω // pF	-	3.3 // 12.3	-
Output	k Ω // pF	-	2.1 // 4.1	-
Temperature coefficient of frequency TC_f	ppm/K	-	-72	-
Package type	SIP5D			

Maximum Ratings

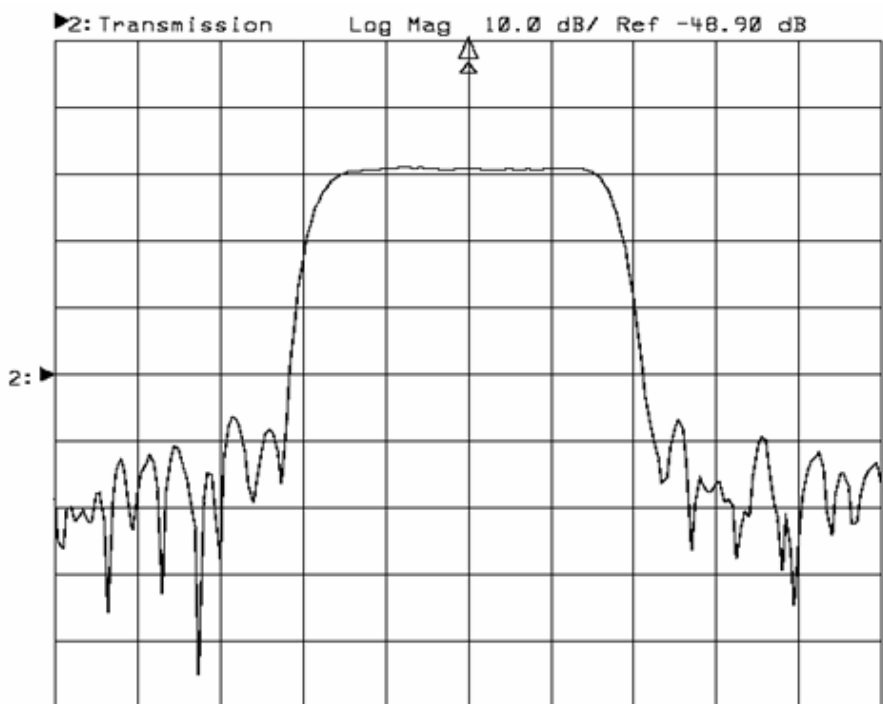
Rating	Unit	Value
Operable Temperature Range	T_A	-25 to +65 °C
Storage Temperature Range	T_{stg}	-40 to +85 °C
DC Voltage (Between any terminals)		15 V
AC Voltage (Between any terminals)	V_{PP}	10 Vp-p

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TYPICAL S21 RESPONSE

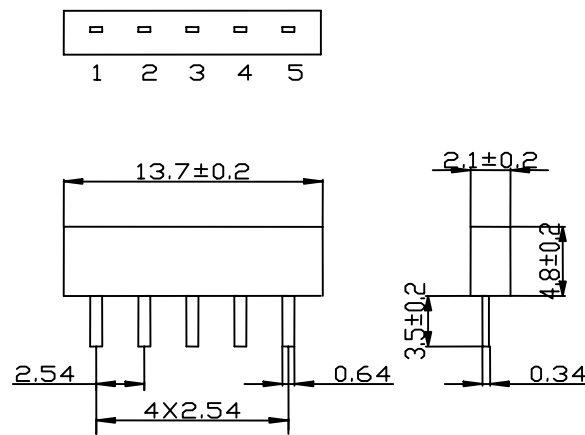


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PACKAGE DRAWING



Pin No.	Functions
1.	Input
2.	Input- Ground
3.	Ground
4.	Output
5.	Output