



TMX W417

SAW Bandpass Filter – DVB-C
Preliminary Specification (Rev-1)

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 April 18th, 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 f_0 (center between 3dB points)	MHz	-	36.00	-
Relative Attenuation α_{rel}				
31.65 MHz	dB	8.0	12.0	-
40.35 MHz	dB	6.0	9.0	-
31.30 MHz	dB	22.0	32.0	-
40.70 MHz	dB	20.0	27.0	-
25.00 ... 31.00 MHz	dB	35.0	40.0	-
41.00 ... 45.00 MHz	dB	32.0	38.0	-
Insertion attenuation I_L Reference level for the following data 36.00 MHz	dB	19	20.5	22
Pass bandwidth				
$\alpha_{\text{rel}} \leq 1.5\text{dB}$ $BW_{1.5\text{dB}}$	MHz	-	7.7	-
$\alpha_{\text{rel}} \leq 3\text{dB}$ $BW_{3\text{dB}}$	MHz	-	8.0	-
$\alpha_{\text{rel}} \leq 15\text{dB}$ $BW_{15\text{dB}}$	MHz	-	8.9	-
$\alpha_{\text{rel}} \leq 30\text{dB}$ $BW_{30\text{dB}}$	MHz	-	9.4	-
Reflected Wave Signal Suppression 1.0 μs ... 6.0 μs after main pulse (test pulse 250ns, Carrier frequency 36.00 MHz)	dB	42.0	52.0	-
Group Delay ripple (p-p) 32.35 MHz....39.65 MHz	ns	-	50	-
Temperature coefficient of frequency TC_f	Ppm/K	-	-72	-
Package type	SIP5D			

Maximum Ratings

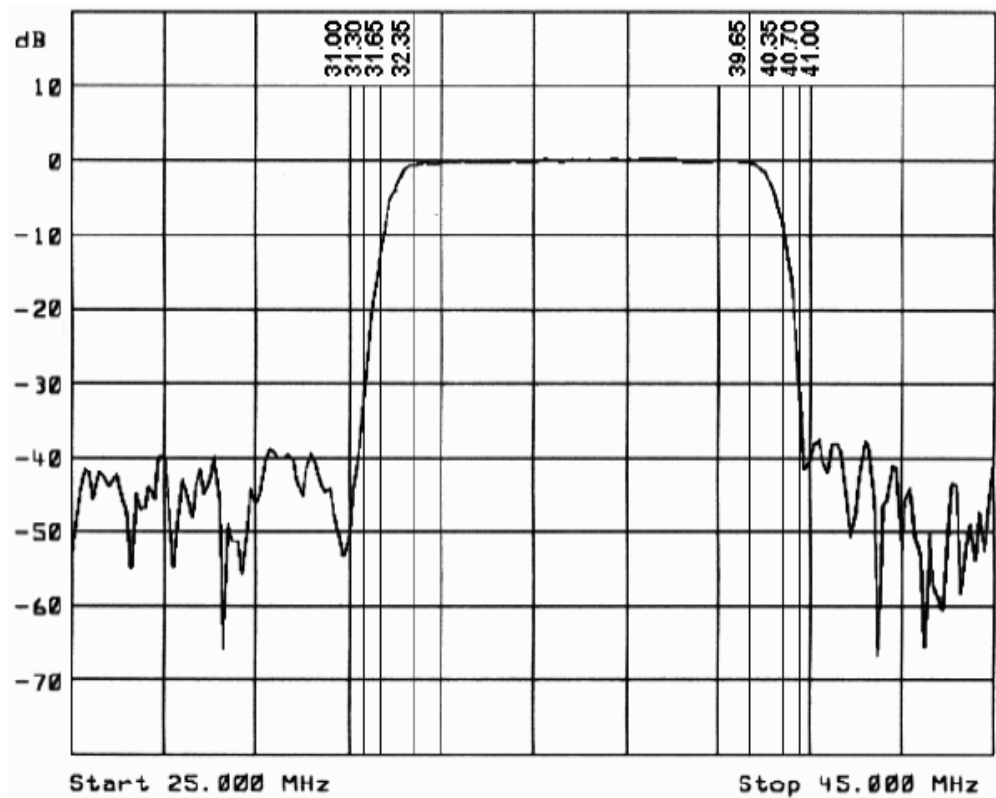
Rating	Unit	Value
Operable Temperature Range T_A	-25 to +65	°C
Storage Temperature Range T_{stg}	-40 to +85	°C
DC Voltage (between any terminals)	12	V
AC Voltage (between any terminals) V_{PP}	10	V

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TYPICAL S21 RESPONSE

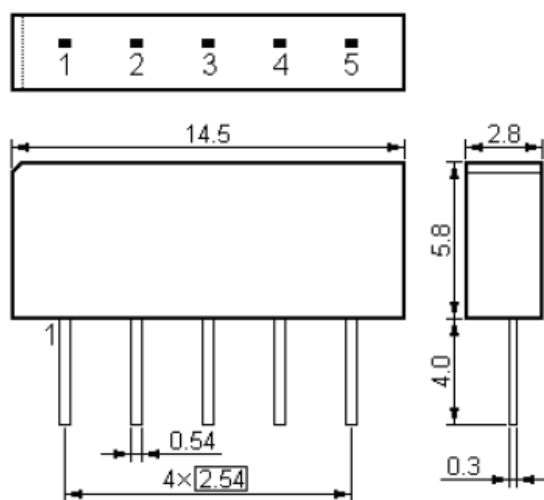


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PACKAGE DRAWING



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

Plastic Package **SIP5D**

Unit: mm