Tel : +44 118 979 1238
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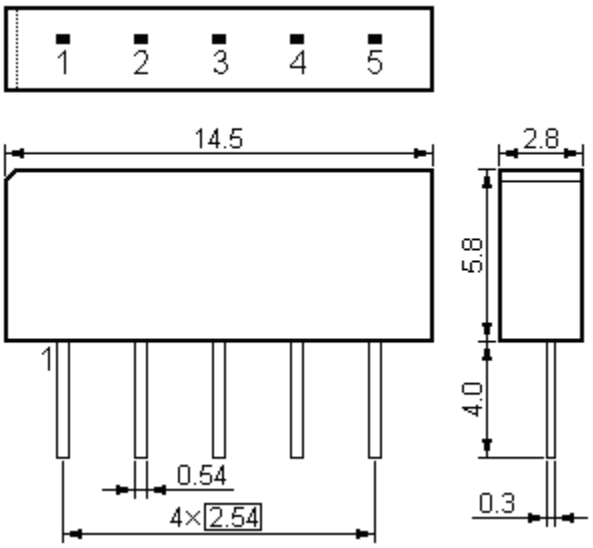
Bandpass Filter for Digital Cable Applications 36.125MHz

ACTX3134D/36.125/SIP5D

Features

- IF filter for digital cable TV
- 3 dB bandwidth: 6.0 MHz
- Plastic Package

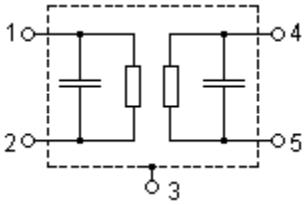
Package Dimension



Plastic Package **SIP5D**
Unit: mm

Pin Configuration

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



Performance

Maximum Ratings

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

In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

ISO9001: 2000 Registered - Registration number 6830/2

For quotations or further information please contact us at:

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Date : SEPT 04

Advanced crystal technology

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Electronic Characteristics

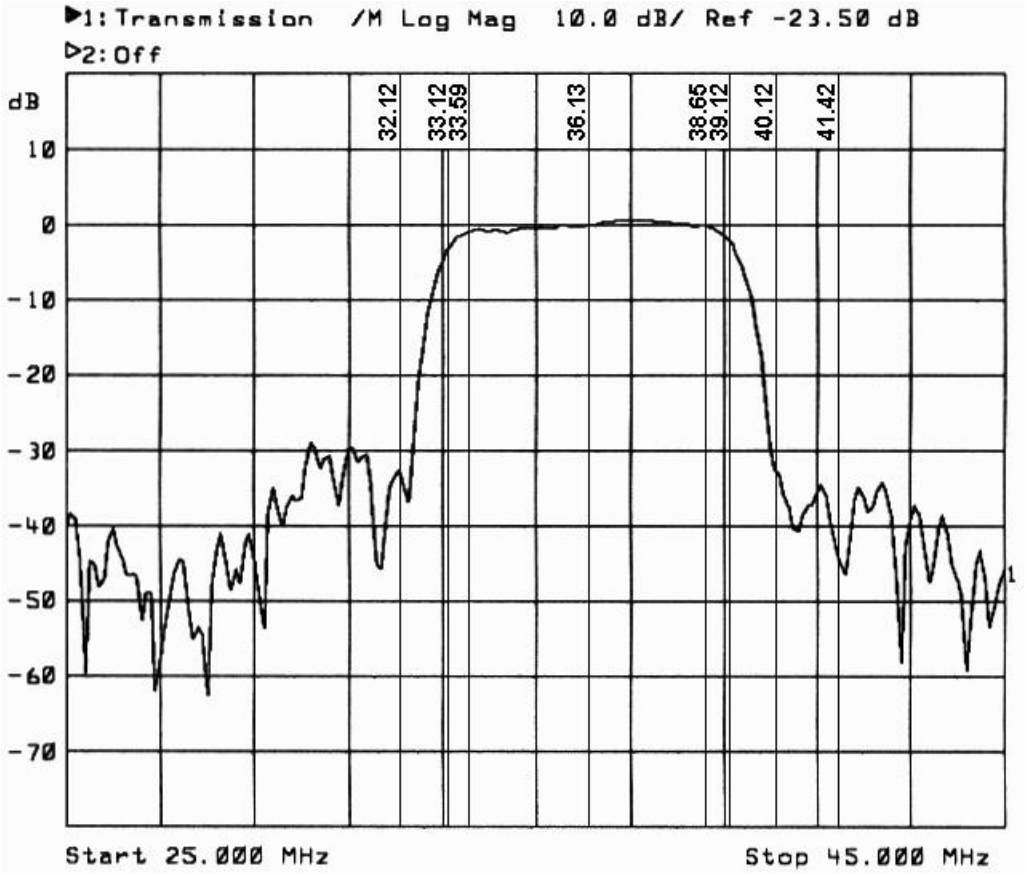
Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

Item			min.	typ.	Max.	Unit
Centre frequency		f_C				
(Centre between 3 dB points)			—	36.125	—	MHz
Insertion attenuation		*IL*				
Reference level for the following data	36.13	MHz	16.0	17.5	19.0	dB
Pass bandwidth						
α_{rel} ≤ 3 dB		BW_{3dB}	5.8	6.0	6.2	MHz
α_{rel} ≤ 30 dB		BW_{30dB}	7.4	7.6	7.8	MHz
Relative attenuation		α_{rel}				
	33.59	MHz	-0.4	0.8	2.0	dB
	38.65	MHz	-1.0	0.2	1.4	dB
	33.12	MHz	1.8	3.0	4.2	dB
	39.12	MHz	1.1	2.3	3.5	dB
Lower sidelobe	25.00 ... 32.12	MHz	25.0	30.0	—	dB
Upper sidelobe	40.12 ... 41.42	MHz	26.0	33.0	—	dB
	41.42 ... 45.00	MHz	28.0	35.0	—	dB
Reflected wave signal suppression						
1.3 µs ... 6.0 µs after main pulse (test pulse 250 ns, carrier frequency 36.13 MHz)			42.0	52.0	—	dB
Feed-through signal suppression						
1.3 µs ... 1.2 µs before main pulse (test pulse 250 ns, carrier frequency 36.13 MHz)			50.0	56.0	—	dB
Group delay ripple (p-p)		Δt				
	32.12 … 39.12	MHz	—	40	—	ns
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

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Frequency Response



i **CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!**