

IF Filter for Intercarrier Applications

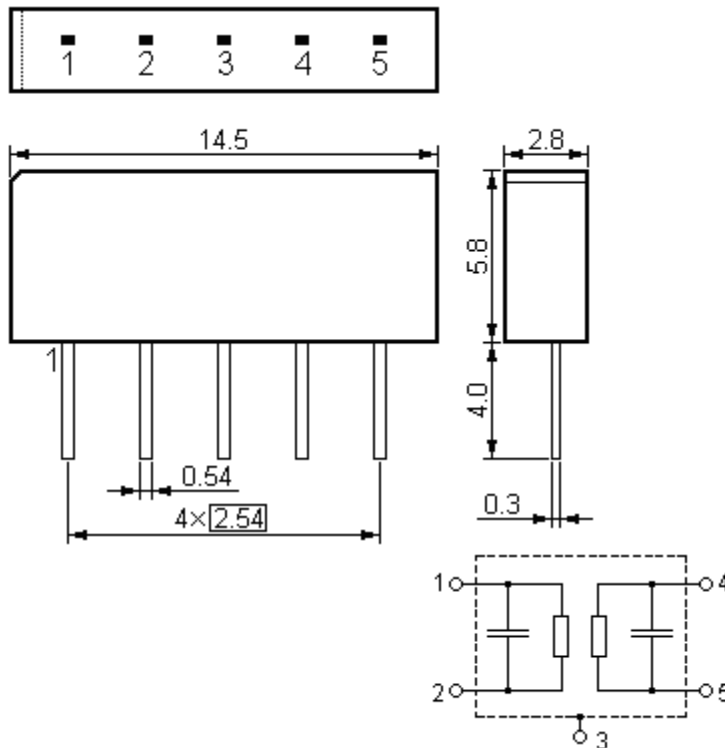
45.75 MHz

ACTK8032D/45.75/SIP5D

Features

- n Standard: M/N
- n TV IF filter with Nyquist slope and sound shelf
- n High colour carrier level
- n Constant group delay
- n Plastic Package

Package Dimension



Pin Configuration

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

Plastic Package **SIP5D**

Unit: mm

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 evolution 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:

3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

<http://www.actcrystals.com>

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Electronic Characteristics

Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

Item		min.	typ.	max.	Unit
Insertion attenuation	IL				
Reference level for the following data	44.06 (44.00) MHz	11.0	12.5	14.0	dB
Relative attenuation	α_{rel}				
Picture carrier	45.81 (45.75) MHz	4.6	5.6	6.6	dB
Colour carrier	42.23 (42.17) MHz	0.1	1.0	2.0	dB
	41.98 (41.92) MHz	—	2.0	—	dB
	41.73 (41.67) MHz	—	5.5	—	dB
Sound carrier	41.31 (41.25) MHz	15.7	17.2	18.7	dB
Adjacent picture carrier	39.81 (39.75) MHz	42.0	55.0	—	dB
Adjacent sound carrier	47.31 (47.25) MHz	30.0	42.0	—	dB
Lower sidelobe					
	35.06 ... 39.81 (35.00 ... 39.75) MHz	36.0	44.0	—	dB
Upper sidelobe					
	47.31 ... 55.06 (47.25 ... 55.00) MHz	30.0	40.0	—	dB
Group delay ripple (p-p)	Δt	—	40	—	ns
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K

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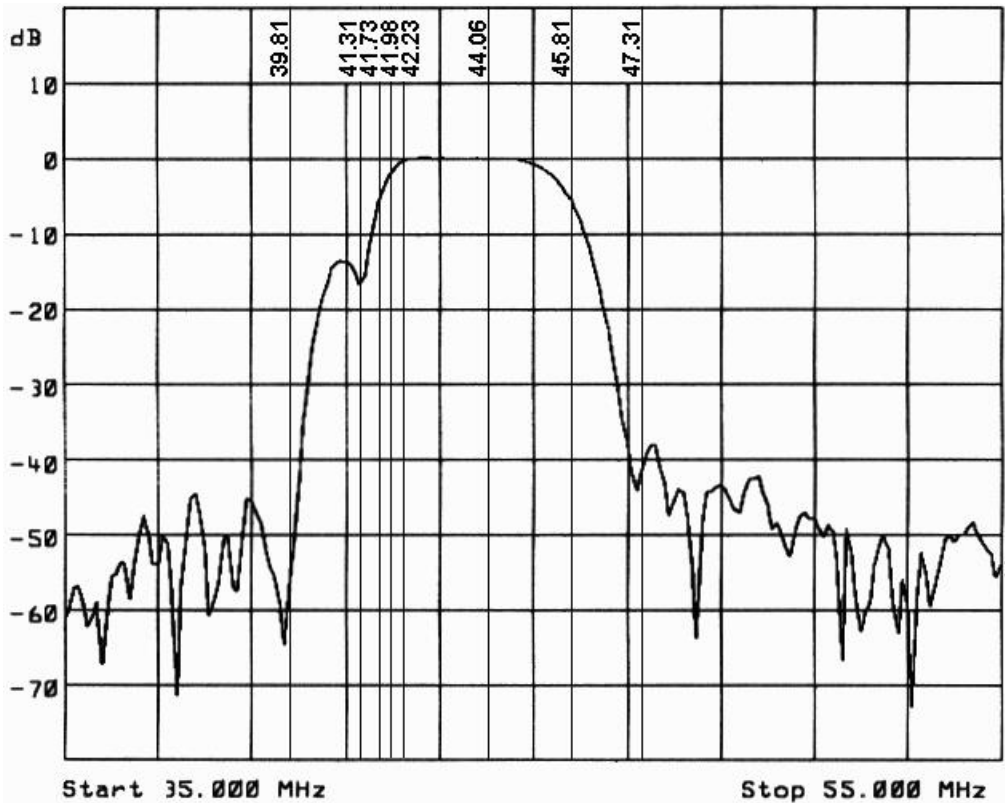
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Frequency Response



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

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