EPCOS

SAW Components

Data Sheet K 3974 D

Data Sheet

Standard

- B/G
- I
- L/L'

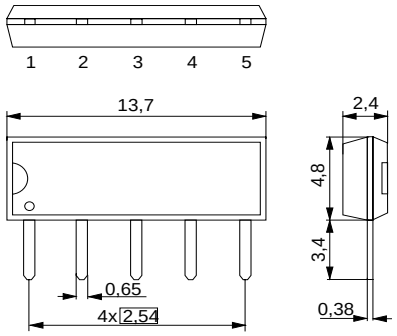
Features

- TV IF filter with Nyquist slope at 33,90 MHz and 38,90 MHz
- Customized group delay predistortion
- Suitable for CENELEC EN 55020
- Standard IC package

Terminals

- Tinned CuFe alloy

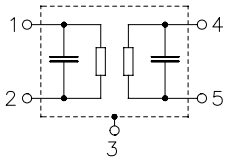
Duroplast package **SIP5D**



Dimensions in mm, approx. weight 0,5 g

Pin configuration

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



Type	Ordering code	Marking and package according to	Packing according to
K 3974 D		C61157-A1-A21	F61074-V8049-Z000

Maximum ratings

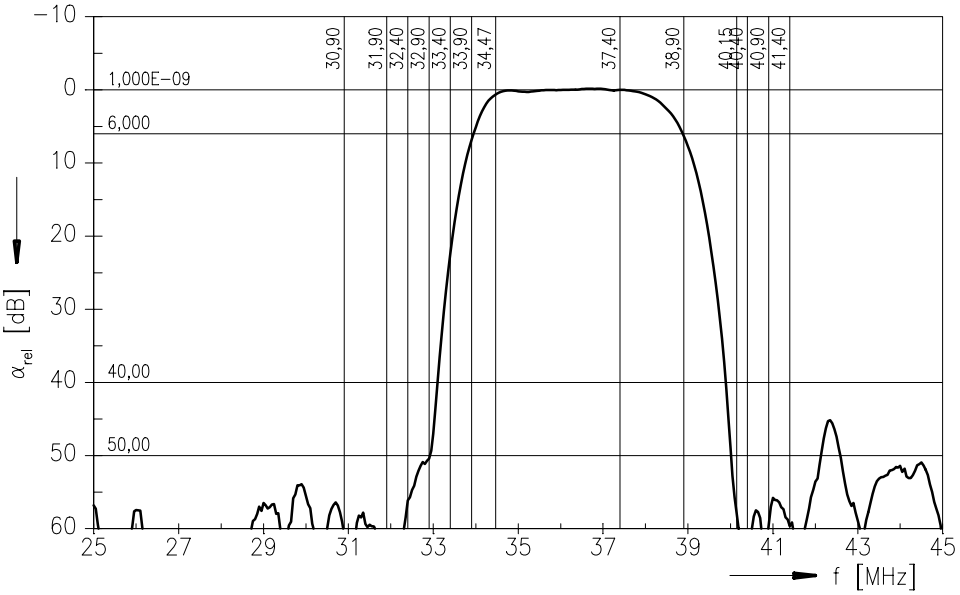
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

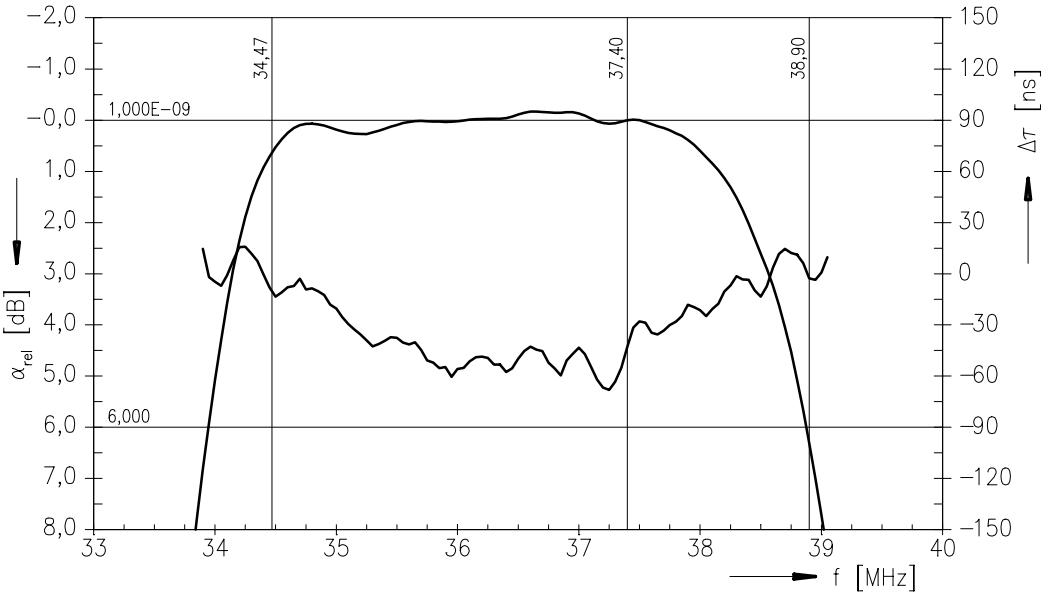
Characteristics

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

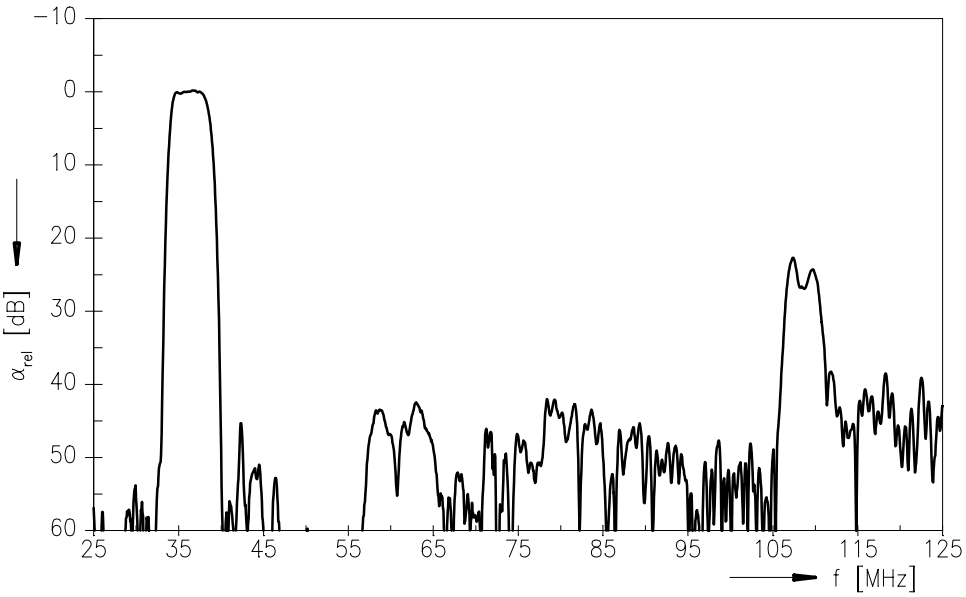
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data	37,40	MHz		11,7	13,2	14,7	dB
Relative attenuation			α_{rel}				
Picture carrier	38,90	MHz		5,5	6,5	7,5	dB
	33,90	MHz		5,4	6,4	7,4	dB
Color carrier	34,47	MHz		—	0,3	—	dB
Sound carrier	33,40	MHz		20,0	22,0	—	dB
	32,90	MHz		—	50,0	—	dB
	32,40	MHz		—	60,0	—	dB
Adjacent picture carrier	30,90	MHz		48,0	58,0	—	dB
	31,90	MHz		50,0	60,0	—	dB
	40,15	MHz		44,0	56,0	—	dB
Adjacent sound carrier	40,40	MHz		46,0	56,0	—	dB
	41,40	MHz		46,0	56,0	—	dB
	40,90	MHz		46,0	56,0	—	dB
Lower sidelobe	25,00 ... 30,90	MHz		44,0	54,0	—	dB
Upper sidelobe	41,40 ... 45,00	MHz		38,0	46,0	—	dB
Reflected wave signal suppression							
1,2 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)				42,0	52,0	—	dB
Feedthrough signal suppression							
1,3 µs ... 1,2 µs before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)				—	56,0	—	dB
Group delay predistortion (reference frequency 38,90 MHz)			$\Delta\tau$				
	36,90	MHz		—	–65	—	ns
	34,47	MHz		—	0	—	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	1,3‖18,7	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	1,6‖ 4,6	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

Frequency response in B/G, L/L' mode

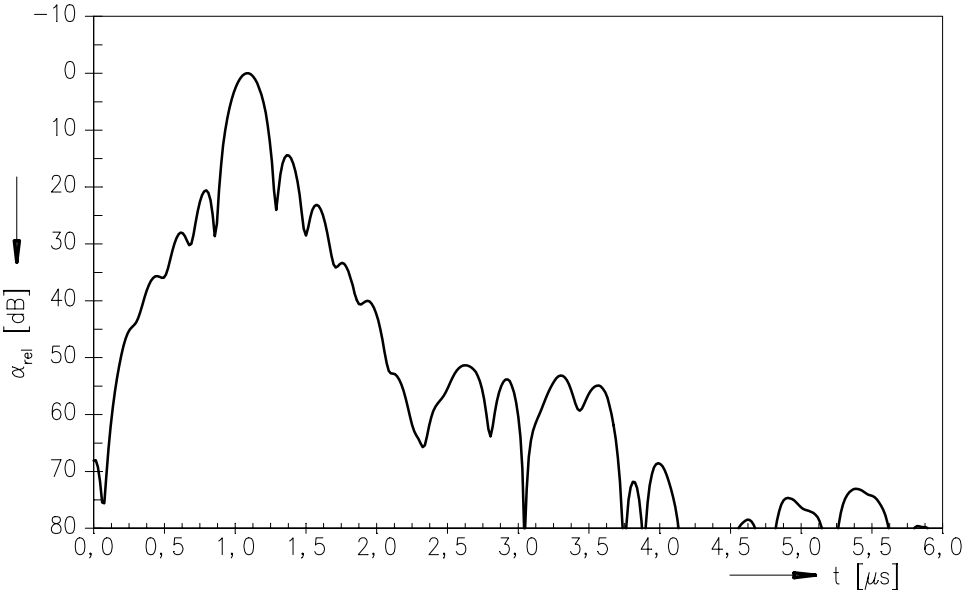




Frequency response



Time domain response



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