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## IF Filters for Intercarrier Applications

**Series/Type:** G1965M

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39389G1965M100	G1967M	2004-09-24	2005-09-30	

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).



The following products presented in this data sheet are being withdrawn

B39389G1965M100

Date of withdrawal: 24-SEP-04

Deadline for last orders: 30-SEP-05

Last shipments:

For further information please contact your nearest EPCOS sales office or contact us directly. We will be happy to help you in selecting a suitable substitute. The addresses of the sales offices are listed on our website at [www.epcos.com/sales](http://www.epcos.com/sales).

# SAW Components

Data Sheet G 1965 M

Data Sheet



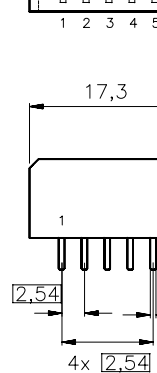
EPCCO

## Features

- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Constant group delay
- Suitable for CENELEC EN 55020

## Terminals

- Tinned CuFe alloy



Dimensions in mm,

## Pin configuration

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

Type	Ordering code	Marking and package according to	Packaging according to
G 1965 M	B39389-G1965-M100	C61157-A1-A15	F61074

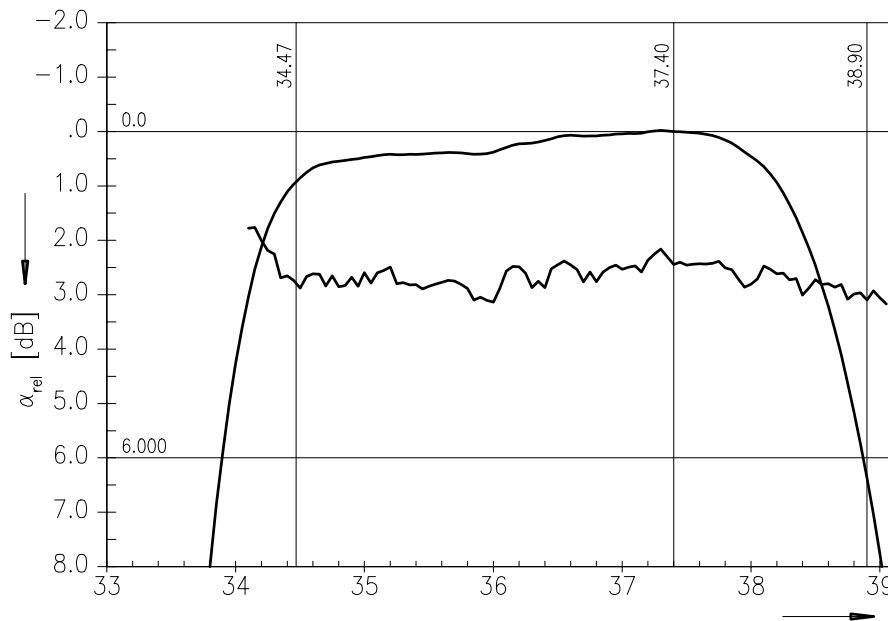
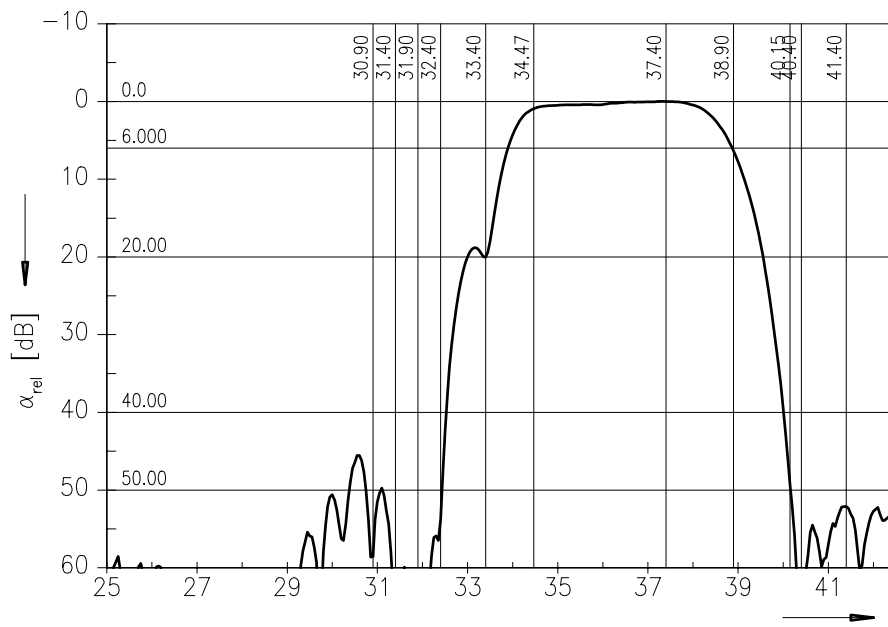
## Maximum ratings

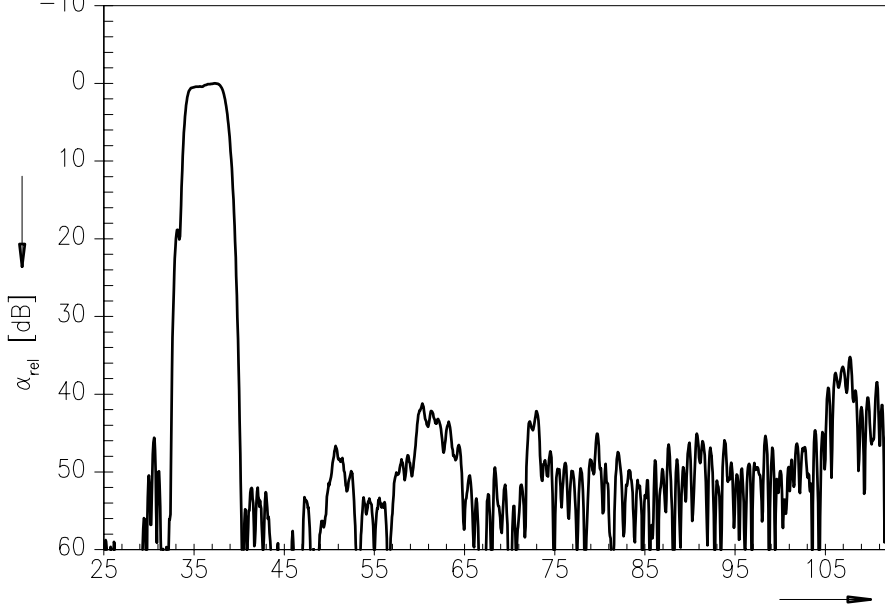
Operable temperature range	$T_A$	-25/+65	°C	
Storage temperature range	$T_{stg}$	-40/+85	°C	
DC voltage	$V_{DC}$	12	V	between any
AC voltage	$V_{pp}$	10	V	between any

Terminating source impedance:

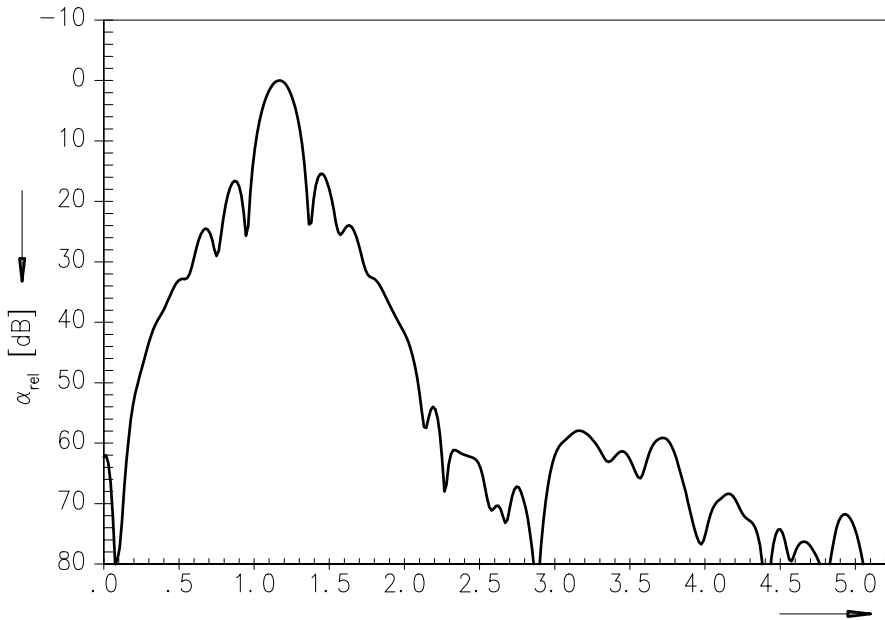
$$Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$$

			min.	typ.
<b>Insertion attenuation</b>		$\alpha$		
Reference level for the following data	37,40	MHz	13,6	15,1
<b>Relative attenuation</b>		$\alpha_{\text{rel}}$		
Picture carrier	38,90	MHz	5,0	6,0
	33,90	MHz	—	6,2
Color carrier	34,47	MHz	0,0	1,0
Sound carrier	33,40	MHz	18,9	20,4
Adjacent picture carrier UHF	30,90	MHz	45,0	57,0
VHF	31,90	MHz	48,0	55,0
	31,40	MHz	46,0	61,0
	32,40	MHz	48,0	55,0
	40,15	MHz	38,0	48,0
Adjacent sound carrier VHF	40,40	MHz	44,0	55,0
UHF	41,40	MHz	42,0	53,0
Lower sidelobe	25,00 ... 31,90	MHz	40,0	47,0
Upper sidelobe	40,40 ... 45,00	MHz	38,0	48,0
<b>Reflected wave signal suppression</b>				
1,1 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			42,0	53,0
<b>Feedthrough signal suppression</b>				
1,3 $\mu\text{s}$ ... 1,1 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			50,0	56,0
<b>Group delay ripple (p-p)</b>		$\Delta\tau$	—	50
<b>Impedance at 37,40 MHz</b>				
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$			—	1,9 $\parallel$ 13,8
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$			—	1,5 $\parallel$ 4,8
<b>Temperature coefficient of frequency</b>		$TC_f$	—	-72





**Time domain response**



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