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SAW Filters for Multimedia Applications

Series/Type: G3956M

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39389G3956M100		2010-10-08	2011-03-30	2011-06-30

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.



SAW Components G 3956 M IF Filter for Video Applications 38,90 MHz

Data Sheet

Standard

■ B/G

Features

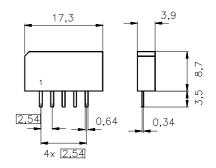
- TV IF filter with Nyquist slope and sound suppression
- High color carrier level
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

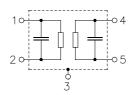




Dimensions in mm, approx. weight 1,0 g

Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to	
G 3956 M	B39389-G3956-M100	C61157-A1-A15	F61074-V8067-Z000	

Maximum ratings

Operable temperature range	T_{A}	-25/+65	°C	
Storage temperature range	$T_{ m stg}$	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics

 T_{A} = 25 °C Z_{S} = 50 Ω Z_{L} = 2 k Ω || 3 pF Reference temperature: Terminating source impedance: Terminating load impedance:

	min.	typ.	max.	
Insertion attenuation 0	α			
Reference level for the 37,40 MHz	12,2	13,7	15,2	dB
following data				
Relative attenuation o	α_{rel}			
Picture carrier 38,90 MHz	5,1	6,1	7,1	dB
Color carrier 34,47 MHz	0,0	1,0	2,0	dB
Sound carrier 33,40 MHz	26,0	39,0	_	dB
33,15 MHz	_	25,0	_	dB
33,90 MHz	_	7,0	_	dB
Adjacent picture carrier UHF 30,90 MHz	48,0	58,0	_	dB
VHF 31,90 MHz	48,0	56,0	_	dB
31,40 MHz	44,0	52,0	_	dB
32,40 MHz	48,0	60,0	_	dB
40,15 MHz	42,0	51,0	_	dB
Adjacent sound carrier VHF 40,40 MHz	45,0	57,0	_	dB
UHF 41,40 MHz	44,0	57,0	_	dB
Lower sidelobe 25,00 31,90 MHz	42,0	49,0	_	dB
Upper sidelobe 40,40 45,00 MHz	40,0	46,0	_	dB
Reflected wave signal suppression				
1,3 μs 6,0 μs after main pulse	42,0	52,0	_	dB
(test pulse 250 ns,				
carrier frequency 37,40 MHz)				
Feedthrough signal suppression				
1,2 μs 1,0 μs before main pulse	50,0	56,0	_	dB
(test pulse 250 ns,				
carrier frequency 37,40 MHz)				
P / P	Δτ			
(reference frequency 38,90 MHz)				
36,90 MHz	-	- 85	_	ns
34,47 MHz	-	70	_	ns
Impedance at 37,40 MHz				
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	-	1,3 16,6	_	$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} C_{OUT}$	-	1,4 4,5	_	k Ω pF
Temperature coefficient of frequency	TC _f —	-72	_	ppm/K



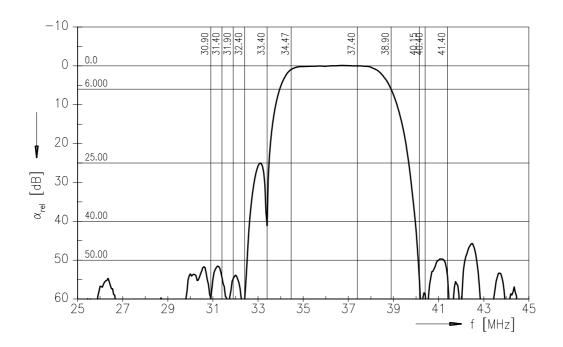
SAW Components G 3956 M

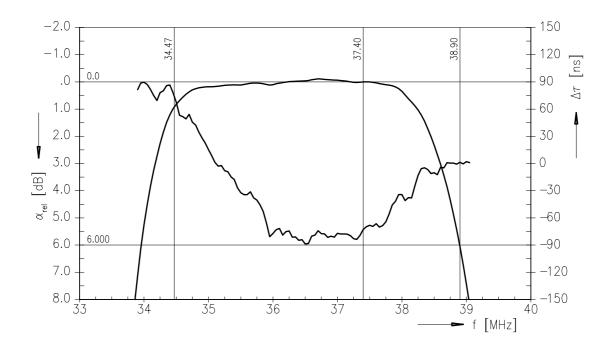
IF Filter for Video Applications

38,90 MHz

Data Sheet

Frequency response







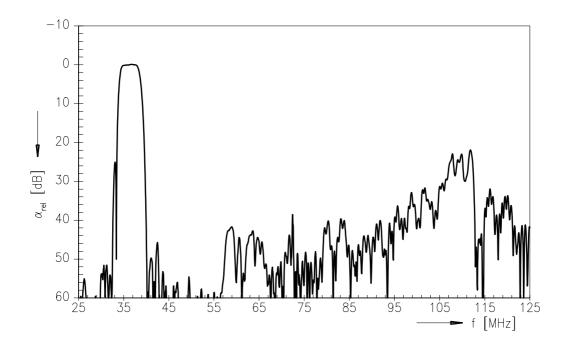
SAW Components G 3956 M

IF Filter for Video Applications

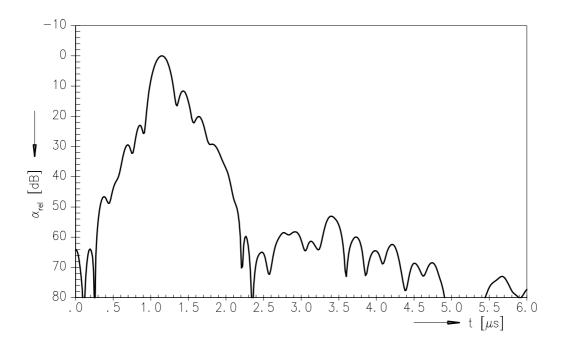
38,90 MHz

Data Sheet

Frequency response



Time domain response





SAW Components G 3956 M

IF Filter for Video Applications 38,90 MHz

Data Sheet

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