

# SAW Filters for Multimedia Applications

## Series/Type: G3956M

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39389G3956M100		2010-F€-€Ì ЖЖЖ	2011-03-30	2011-06-30

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# SAW ComponentsG 3956 MIF Filter for Video Applications38,90 MHzData Sheet

#### Data Sheet

## Standard

■ B/G

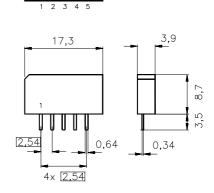
#### Features

- 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

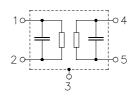


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#### Dimensions in mm, approx. weight 1,0 g

#### **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 <sub>A</sub>	-25/+65	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	V <sub>DC</sub>	5	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

SAW Compone							G	3956 M
IF Filter for Vide	o Application	s					38,9	0 MHz
Data Sheet								
Characteristics								
Reference tempera				= 25 °C				
Terminating source	•			= 50 Ω				
Terminating load im	ipedance:		$Z_{L}$	= 2 kΩ	3 pF			
					min.	typ.	max.	
Insertion attenuati	on			α				
Reference level for	the	37,40	MHz		12,2	13,7	15,2	dB
following data								
Relative attenuation	on			$\alpha_{\text{rel}}$				
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				7,0	—	dB
Adjacent picture ca	rrier UHF	30,90			48,0	58,0	—	dB
	VHF	31,90	MHz		48,0	56,0	—	dB
		31,40			44,0	52,0		dB
		32,40			48,0	60,0	—	dB
		40,15			42,0	51,0	—	dB
Adjacent sound car		40,40			45,0	57,0	—	dB
	UHF	41,40			44,0	57,0	—	dB
Lower sidelobe	25,00				42,0	49,0	—	dB
Upper sidelobe	40,40	45,00	MHz		40,0	46,0	_	dB
Reflected wave sig	anal suppressio	n						
1,3 μs 6,0 μs afte					42,0	52,0	_	dB
(test pulse 250 ns,					,•	0_,0		
carrier frequency 37	7.40 MHz)							
Feedthrough signa	. ,							
1,2 μs 1,0 μs bef					50,0	56,0	_	dB
(test pulse 250 ns,					,			
carrier frequency 37	7,40 MHz)							
Group dolay pradi	startion			Δτ				
Group delay predi				$\Delta \tau$				
(reference frequenc	y 30,90 IVI⊓∠)	36,90	M⊔⇒			85		ne
		36,90 34,47				-85 70		ns
Impedance at 37,4		54,47				10		ns
inpedance at 37,4								

Mar 31, 2006

## l⊗TDK

G 3956 M

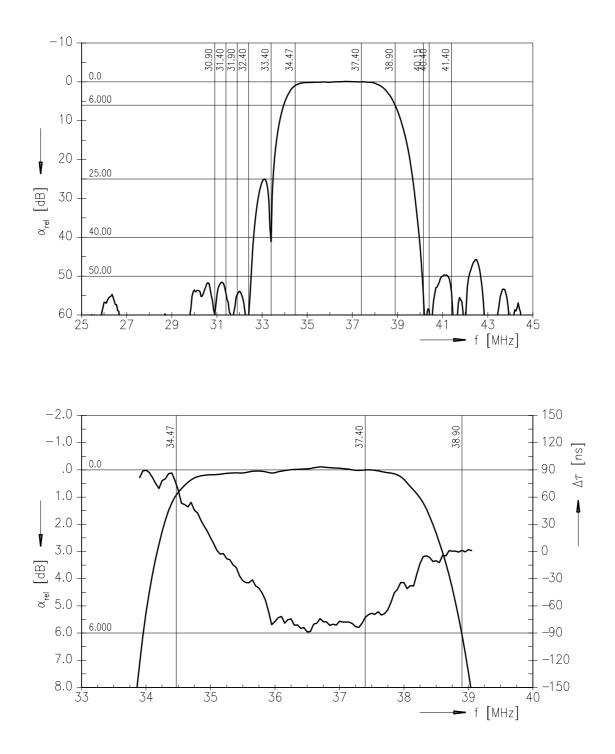
38,90 MHz

SAW Components

IF Filter for Video Applications

**Data Sheet** 

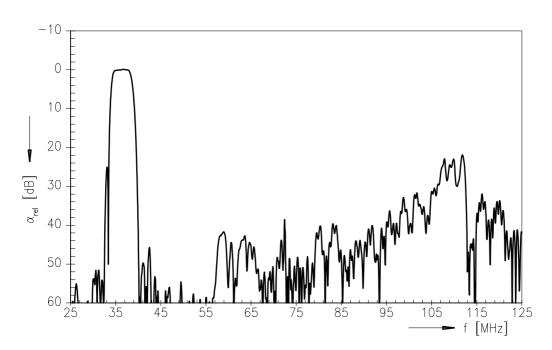
#### Frequency response



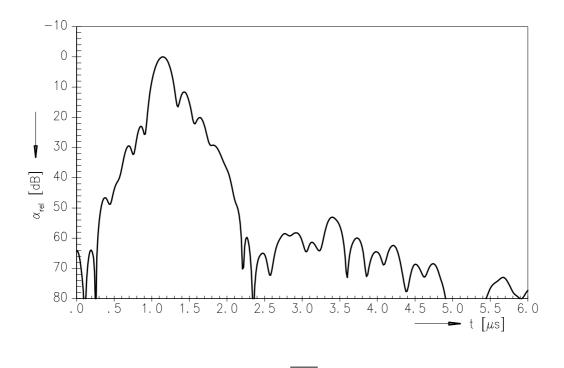
SAW Components	G 3956 M
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## Data Sheet

#### **Frequency response**



#### Time domain response



Mar 31, 2006

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