imall

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SAW Components

Data Sheet M 1967 M





SAW ComponentsM 1967 MIF Filter for Intercarrier Applications45,75 MHz

Data Sheet

Standard

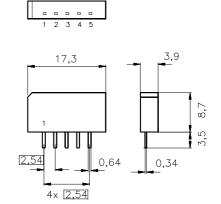
M/N

Features

- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Constant group delay

Terminals

■ Tinned CuFe alloy

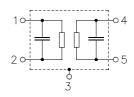


Plastic package SIP5K

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	
M 1967 M	B39458-M1967-M100	C61157-A1-A15	F61074-V8067-Z000	

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 terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

2



Data Sheet Characteristics Reference temperature: $T_A = 25 (45)$ °C Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 2 k\Omega \parallel 3 pF$ Insertion attenuation α Reference level for the 44,06 (44,00) MHz 11,1 12,6 14,1 or Picture carrier 45,81 (45,75) MHz 5,0 6,0 7,0 or Color carrier 42,23 (42,17) MHz - 3,0 - or Young data 41,98 (41,92) MHz - 3,0 - or Picture carrier 45,81 (45,75) MHz 0,0 1,0 2,0 or Color carrier 42,23 (42,17) MHz - 3,0 - or Sound carrier 41,38 (41,92) MHz - 3,0 - or Adjacent picture carrier 39,81 (39,75) MHz 0,0 1,0 2,0 or Adjacent sound carrier 47,31 (47,25) MHz 46,0 56,0 - or Lower sidelobe 35,06 <th>nponents</th> <th></th> <th></th> <th></th> <th>М</th> <th>1967 M</th>	nponents				М	1967 M	
CharacteristicsReference temperature: $T_A = 25 (45) ^{\circ}C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 2 k\Omega 3 pF$ Imsertion attenuation α Insertion attenuation α Insertion attenuation α Insertion attenuation α Picture carrier45,81 (45,75) MHz5,06,07,0 α Algebra attenuation α α α α Picture carrier45,81 (45,75) MHz $5,0$ $6,0$ $7,4$ α Algebra attenuation α α α α α α α Relative attenuation α <th col<="" th=""><th>or Intercarrier Application</th><th>ns</th><th></th><th></th><th>45,</th><th>75 MHz</th></th>	<th>or Intercarrier Application</th> <th>ns</th> <th></th> <th></th> <th>45,</th> <th>75 MHz</th>	or Intercarrier Application	ns			45,	75 MHz
Reference temperature: $T_A = 25 (45) ° C$ Terminating source impedance: $Z_S = 50 Ω$ Terminating load impedance: $Z_L = 2 kΩ \parallel 3 pF$ Insertion attenuation $α$ Reference level for the44,06 (44,00) MHz11,112,614,1 q Relative attenuation $α_{rel}$ 11,112,614,1 q Relative attenuation $α_{rel}$ $α_{rel}$ $α_{rel}$ $α_{rel}$ Relative attenuation $α_{rel}$ $3,0$ $ q_{2,3} (42,17) MHz$ $0,0$ $1,0$ $2,0$ $q_{2,0}$ Color carrier $42,23 (42,17) MHz$ $0,0$ $1,0$ $2,0$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ Sound carrier $41,31 (41,25) MHz$ $17,6$ $19,1$ $20,6$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ Adjacent picture carrier $39,81 (39,75) MHz$ $41,0$ $46,0$ $ q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ Adjacent sound carrier $47,31 (47,25) MHz$ $41,0$ $46,0$ $ q_{2,0}$ $35,06 39,81 (35,00 39,75) MHz$ $41,0$ $46,0$ $ q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ $q_{2,0}$ Reflected wave signal suppression $1,1 µs 6,0 µs after main pulse50,056,0 q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}q_{2,0}$	i						
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Picture carrier 45,81 (45,75) MHz 5,0 6,0 7,0 d Color carrier 42,23 (42,17) MHz 0,0 1,0 2,0 d 41,98 (41,92) MHz 3,0 d Sound carrier 41,31 (41,25) MHz 17,6 19,1 20,6 d Adjacent picture carrier 39,81 (39,75) MHz 50,0 62,0 d Adjacent sound carrier 47,31 (47,25) MHz 46,0 56,0 d Lower sidelobe 35,06 39,81 (35,00 39,75) MHz 41,0 46,0 d Upper sidelobe 47,31 55,06 (47,25 55,00) MHz 42,0 47,0 d Reflected wave signal suppression 42,0 52,0 d d 1,1 μs 6,0 μs after main pulse 50,0 56,0 d (test pulse 250 ns, carrier frequency 44,06 MHz) 50,0 56,0 d Group delay ripple (p-p) Δτ 40 r Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ <td>enuation</td> <td>α_{rr}</td> <td>rel</td> <td></td> <td></td> <td></td>	enuation	α_{rr}	rel				
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0,0	1,0	2,0	dB	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	41,98 (41,	92) MHz	_	3,0	_	dB	
Sound carrier 41,31 (41,25) MHz 17,6 19,1 20,6 d Adjacent picture carrier 39,81 (39,75) MHz 50,0 62,0	•	,	_		_	dB	
Adjacent picture carrier 39,81 (39,75) MHz 50,0 62,0 — d Adjacent sound carrier 47,31 (47,25) MHz 46,0 56,0 — d Lower sidelobe 35,06 39,81 (35,00 39,75) MHz 41,0 46,0 — d Upper sidelobe 47,31 55,06 (47,25 55,00) MHz 42,0 47,0 — d Reflected wave signal suppression 1,1 µs 6,0 µs after main pulse 42,0 52,0 — d (test pulse 250 ns, carrier frequency 44,06 MHz) 50,0 56,0 — d d Feedthrough signal suppression 1,2 µs 1,1 µs before main pulse 50,0 56,0 — d (test pulse 250 ns, carrier frequency 44,06 MHz) 50,0 56,0 — d d Group delay ripple (p-p) $\Delta \tau$ — 40 — r Impedance at 44,06 MHz		,	17,6		20,6	dB	
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1,1 μ s 6,0 μ s after main pulse42,052,0d(test pulse 250 ns, carrier frequency 44,06 MHz)50,056,0dFeedthrough signal suppression 1,2 μ s 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)50,056,0dGroup delay ripple (p-p) $\Delta \tau$ 40rImpedance at 44,06 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ 0,9 \parallel 14,9k	47,31 55,06 (47,25 55,0	00) MHz	42,0	47,0	—	dB	
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Feedthrough signal suppression 1,2 µs 1,1 µs before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)50,056,0dGroup delay ripple (p-p) $\Delta \tau$ 40rImpedance at 44,06 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ $0,9 \parallel 14,9$ k	250 ns,		42,0	52,0	—	dB	
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Impedance at 44,06 MHz	μs before main pulse 250 ns,		50,0	56,0	—	dB	
Input: $Z_{IN} = R_{IN} C_{IN} - 0.9 14.9 - k$	y ripple (p-p)	Δτ	-	40	_	ns	
	Input: Z _{IN} = R _{IN}		_		_	kΩ pF kΩ pF	
						ppm/K	



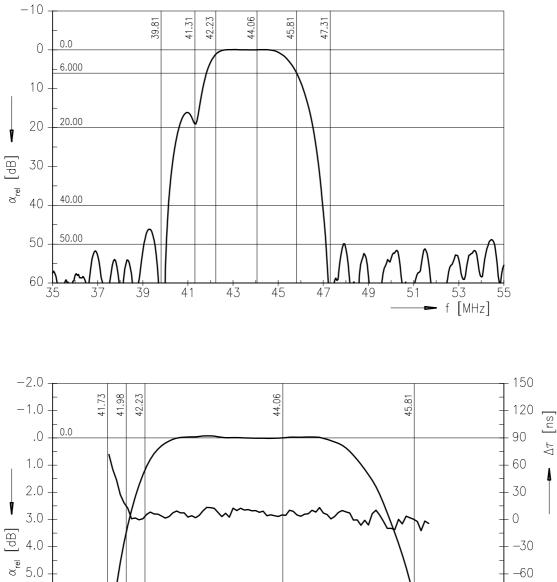
Data Sheet

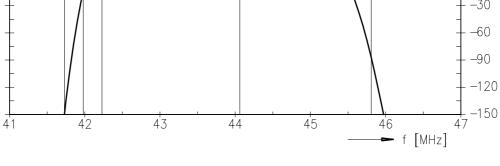
6.0

7.0

8.0

Frequency response





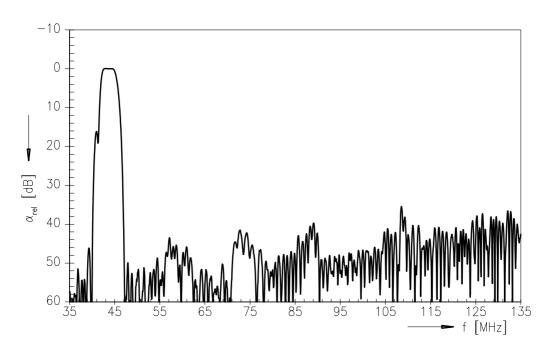
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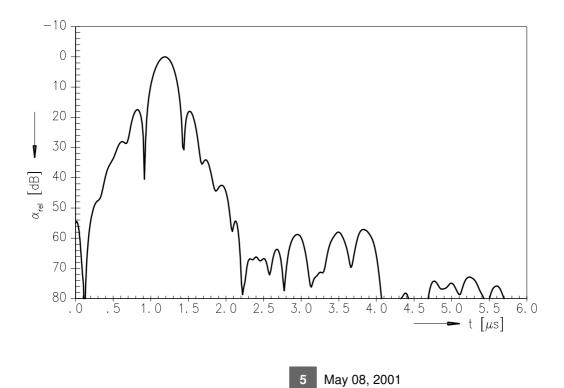
SAW Components	M 1967 M
IF Filter for Intercarrier Applications	45,75 MHz

Data Sheet

Frequency response



Time domain response





SAW Components	M 1967 M
IF Filter for Intercarrier Applications	45,75 MHz

Data Sheet

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