

SAW multimedia filters

Series/Type: X6941D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39440X6941N201		2011-01-14	2011-09-30	2012-09-30

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.

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X 6941 D 44,00 MHz

SAW Components

Bandpass Filter

Data Sheet

Standard

HDTV

Features

- Constant group delay
- Optimized for cascade of two devices
- Optimized for balanced to balanced operation
- Standard IC package

Duroplast package SIP5D



Terminals

■ Tinned CuFe alloy

Dimensions in mm, approx. weight 0,5 g

Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to
X 6941 D	B39440-X6941-N201	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	$V_{\rm pp}$	10	V	between any terminals

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SAW Components	_	_	_	_	_		941 D
Bandpass Filter						44,00	MHz
ata Sheet							
Characteristics							
Reference temperatu	re:		$T_{\rm A} = 25$	°C			
Terminating source in			$Z_{\rm S} = 50$	Ω			
Terminating load imp	edance:		$Z_{\rm L} = 2 \rm k$	Ω 3 pF a	nd matching	network	
				min.	typ.	max.	
Insertion attenuation	n		α				
Reference level for th	ie	44,00	MHz	18,5	20,0	21,5	dB
following data							
Amplitude ripple (p-	p)		Δα				
	41,60	46,40	MHz	_	0,4	—	dB
Relative attenuation	1		α_{rel}				
		40,75	MHz	25,0	32,0	—	dB
		41,31	MHz	1,1	1,6	2,1	dB
		41,43	MHz	-0,4	0,3	1,0	dB
		41,60	MHz	-0,4	0,1	0,6	dB
		46,40	MHz	-0,4	0,1	0,6	dB
		46,57	MHz	0,1	0,6	1,1	dB
		46,69	MHz	1,5	2,0	2,5	dB
		47,25	MHz	25,0	36,0	—	dB
Lower sidelobe	35,00	39,10	MHz	34,0	42,0	—	dB
	39,10	40,35	MHz	27,0	32,0		dB
Upper sidelobe	47,65	48,65	MHz	25,0	30,0		dB
	48,65	55,00	MHz	32,0	37,0		dB
Reflected wave sign	al suppression	on					
1,5 μs 6,0 μs after	main pulse			42,0	56,0	_	dB
(test pulse 250 ns,							
carrier frequency 44,0	00 MHz)						
Group delay ripple ((p-p)		$\Delta \tau$				
	41,31	46,69	MHz	_	30	80	ns
Impedance at 44,00							
	it: $Z_{\rm IN} = R_{\rm I}$			-	1,9 22,2		kΩ pl
Outp	out: $Z_{OUT} = R_{C}$		TUC	-	6,1 5,7	—	kΩ pl
Temperature coefficient of frequency TC _f				-18		ppm/K	





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X 6941 D 44,00 MHz

SAW Components

Bandpass Filter

Data Sheet

Frequency response





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SAW Components	X 6941 D
Bandpass Filter	44,00 MHz

Data Sheet

Frequency response



Time domain response



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SAW Components	X 6941 D
Bandpass Filter	44,00 MHz
Data Sheet	

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This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

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