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SAW filters for infrastructure systems

Series/Type: B3608

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39141B3608Z510	B39141B5246H810	2012-01-13	2012-12-31	2013-03-30

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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SAW Components	B3608
Low-Loss Filter	140 MHz

Preliminary Data Sheet

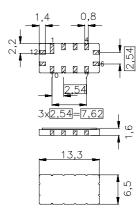
Ceramic package QCC 12

Features

- High performance IF bandpass filter
- Constant group delay
- Hermetically sealed ceramic package

Terminals

Gold plated



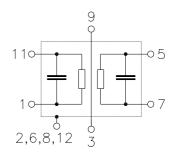
Dimensions in mm, approx. weight 0,4 g

Pin configuration

11	Input or balanced Input
1	Input-Ground or bal. Input
5	Output or balanced Output
7	Output-Ground or bal. Output

2, 3, 4, 6,

8, 9, 10, 12 Must be grounded



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B3608	B39141B3608Z510	C61157A0007A055	F61074V8026Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Τ	– 40/+ 85	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω
Source power	$P_{\rm s}$	20	dBm	s. imp. 50 Ω , duty cycle 1:100



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Characteristics

Operating temperature: T = 25 °C

Terminating source impedance: $Z_{\rm S} = 50 \, \Omega$ and matching circuit Terminating load impedance: $Z_{\rm L} = 50 \, \Omega$ and matching circuit

		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	139,75	140,00	140,25	MHz
(Center between 3dB points)					
Insertion attenuation at $f_{\mathbb{C}}$	α_{C}	_	10	11	dB
Group delay at $f_{\mathbb{C}}$	$ au_{ extsf{C}}$	1,18	1,23	1,28	μs



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Characteristics

Operating temperature: $T = -40 \,^{\circ}\text{C} \dots +85 \,^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S}=50~\Omega$ and matching circuit Terminating load impedance: $Z_{\rm L}=50~\Omega$ and matching circuit

Group delay aperture: 200 kHz

			min.	typ.	max.	
Center frequency		$f_{\mathbb{C}}$	138,85	140,00	141,15	MHz
(Center between 3dB	s points)					
Insertion attenuation at f _C		α_{C}	_		13	dB
Amplitude ripple (max peak to adjacent valley)		Δα				
(80% of B _{3dB})	133,60 146,40 MHz		_	0,5	0,9	dB
Phase ripple (p-p)		Δφ				
(80% of B _{3dB})	133,60 146,40 MHz			7	14	0
Pass bandwidth						
	$\alpha_{rel} \leq$ 1 dB	B_{1dB}	15,0	16,0	_	MHz
	$\alpha_{rel} \leq 3 dB$	B_{3dB}	16,0	16,8		MHz
	$\alpha_{rel} \leq 40 \text{ dB}$	B _{40dB}	_	21,0	22,0	MHz
Relative attenuation	relative to $\alpha_{\rm C}$	$\alpha_{ m rel}$				
	100,00 128,70 MHz		40	45	<u> </u>	dB
	128,70 129,00 MHz		37	43		dB
	151,00 152,30 MHz		24	30		dB
	152,30 180,00 MHz		40	45	_	dB
Group delay ripple (p-p)		Δτ				
	133,60 146,40 MHz		_	80	140	ns
Reflected wave sign	nal suppression					
$0.70~\mu s \dots 3.75~\mu s$ after main pulse			35	38	_	dB
Temperature coefficient of frequency		TC _f	_	- 87	_	ppm/K



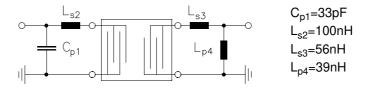
SAW Components B3608

Low-Loss Filter 140 MHz

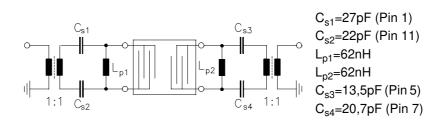
Preliminary Data Sheet

Matching circuit: Element values depending on PCB layout

Input and output unbalanced



Input and output balanced

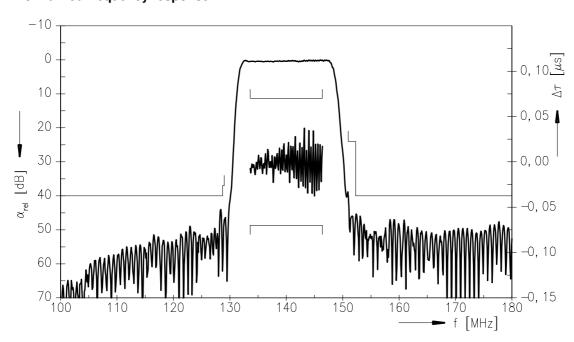




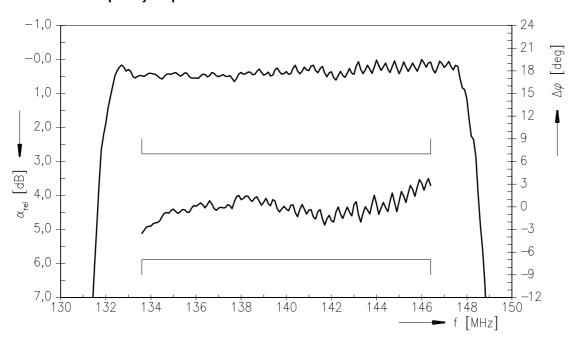
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Normalized frequency response



Normalized frequency response





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Attachment

Pyroelectric pulse amplitude < 100 mV.



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