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SAW filters for infrastructure systems

Series/Type: B3606

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39141B3606Z510	B39141B5211Z510	2011-04-01	2011-06-30	2011-09-30

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.

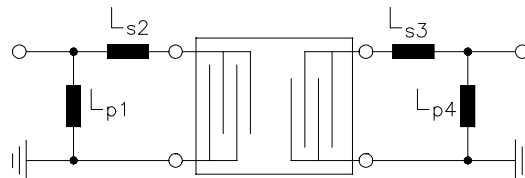
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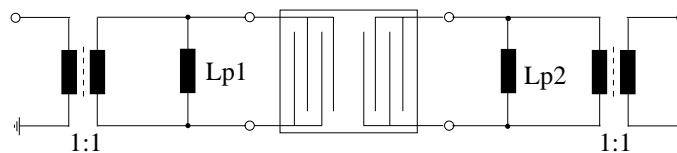
SAW Components
B3606
Low-Loss Filter
140,00 MHz
Data Sheet
Characteristics

Operating temperature: $T = -40^{\circ}\text{C} \dots 85^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50 \ \Omega$ and matching circuit
Terminating load impedance: $Z_L = 50 \ \Omega$ and matching circuit
TTI=Triple transit signal included; TTE=Triple transit signal excluded

		min.	typ.	max.	
Center frequency (Center between 6dB points; @ $T = 25^{\circ}\text{C}$)	f_C	139,75	140,00	140,25	MHz
Insertion attenuation at f_C	α_C	—	11,0	13,0	dB
Amplitude ripple (TTI, p-p) 130,0 ... 150,0 MHz	$\Delta\alpha$	—	0,6	0,9	dB
Pass bandwidth $\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	—	25,5	—	MHz
Phase ripple (TTE, p-p) 130,0 ... 150,0 MHz 131,0 ... 149,0 MHz	$\Delta\phi$	—	8,0 6,0	9,5 7,0	$^{\circ}$ $^{\circ}$
Relative attenuation (relative to α_C)	α_{rel}				
100,0 ... 108,0 MHz		40,0	50,0	—	dB
108,0 ... 116,0 MHz		40,0	48,0	—	dB
116,0 ... 121,5 MHz		40,0	44,0	—	dB
158,5 ... 164,0 MHz		37,0	40,0	—	dB
164,0 ... 172,0 MHz		39,0	42,0	—	dB
172,0 ... 180,0 MHz		40,0	47,0	—	dB
Reflected wave signal suppression 0,72 μs ... 0,62 μs before main pulse		45,0	50,0	—	dB
Reflected wave signal suppression 0,62 μs ... 2,88 μs after main pulse		33,0	37,0	—	dB
Group delay at f_C	τ_C	0,71	0,72	0,73	μs
Group delay ripple (TTE, p-p) 130,0 ... 150,0 MHz	$\Delta\tau$	—	15,0	—	ns
Temperature coefficient of frequency	TC_f	—	-87	—	ppm/K

Data Sheet
Matching circuit: unbalanced - unbalanced


$L_{p1}=47\text{nH}$
 $L_{s2}=10\text{nH}$
 $L_{s3}=10\text{nH}$
 $L_{p4}=47\text{nH}$

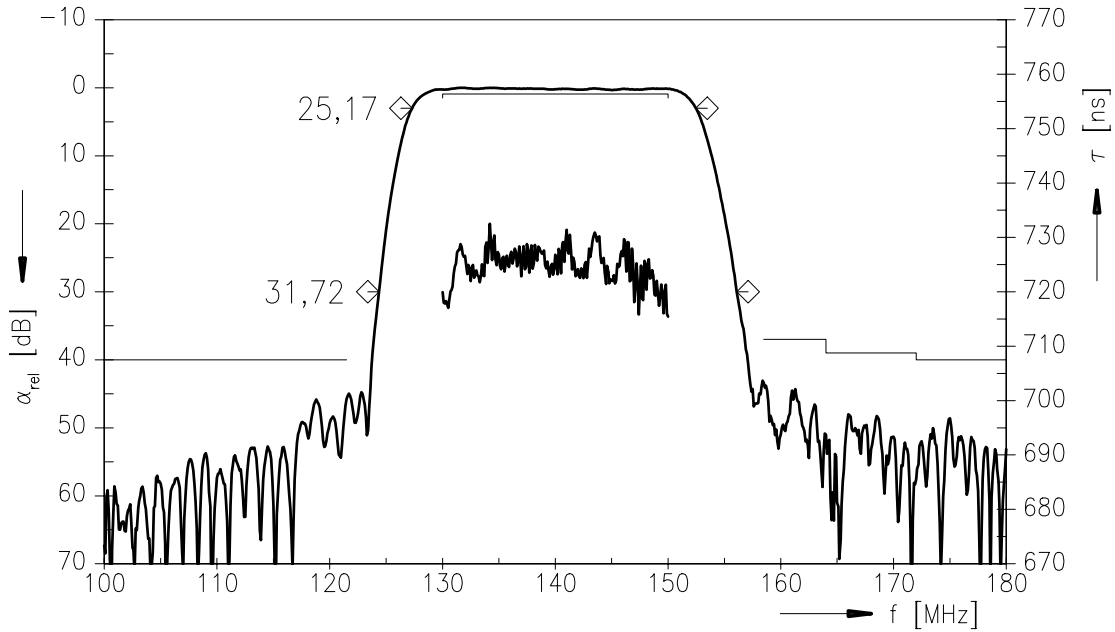
Matching circuit: balanced - balanced


$L_{p1}=62\text{nH}$
 $L_{p2}=62\text{nH}$

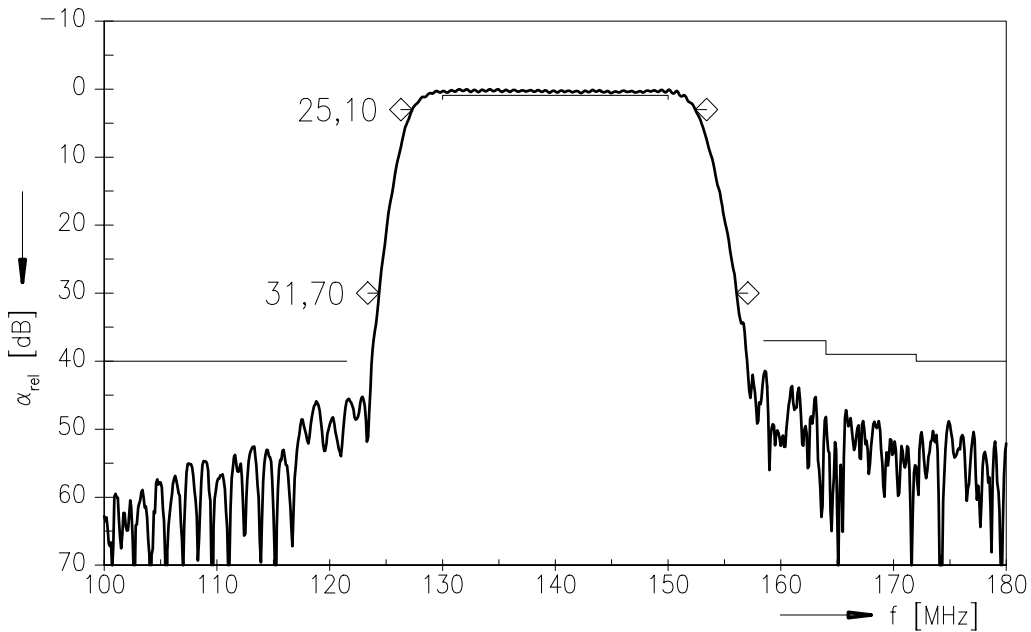
Note: Component values depend on PCB layout.

Data Sheet

Normalized frequency response (Triple transit signal excluded)

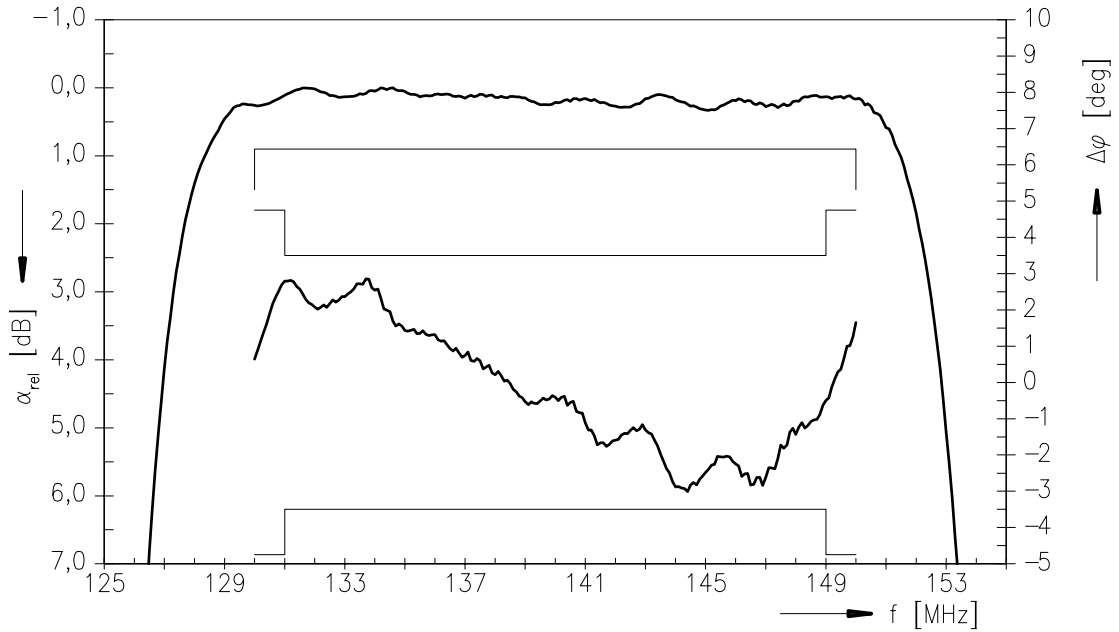


Normalized frequency response (Triple transit signal included)

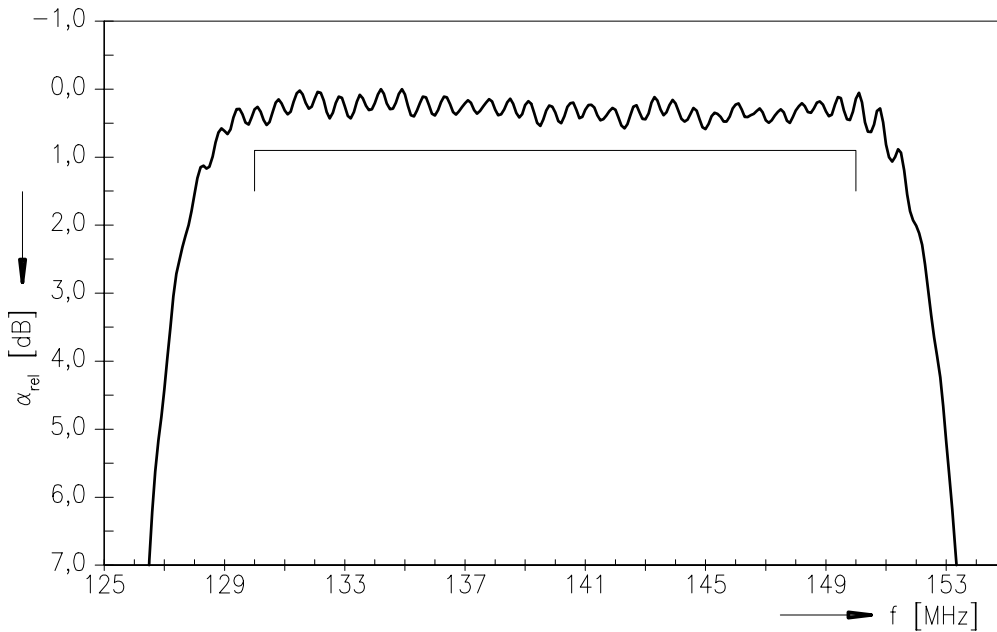


Data Sheet

Normalized frequency response (Triple transit signal excluded)

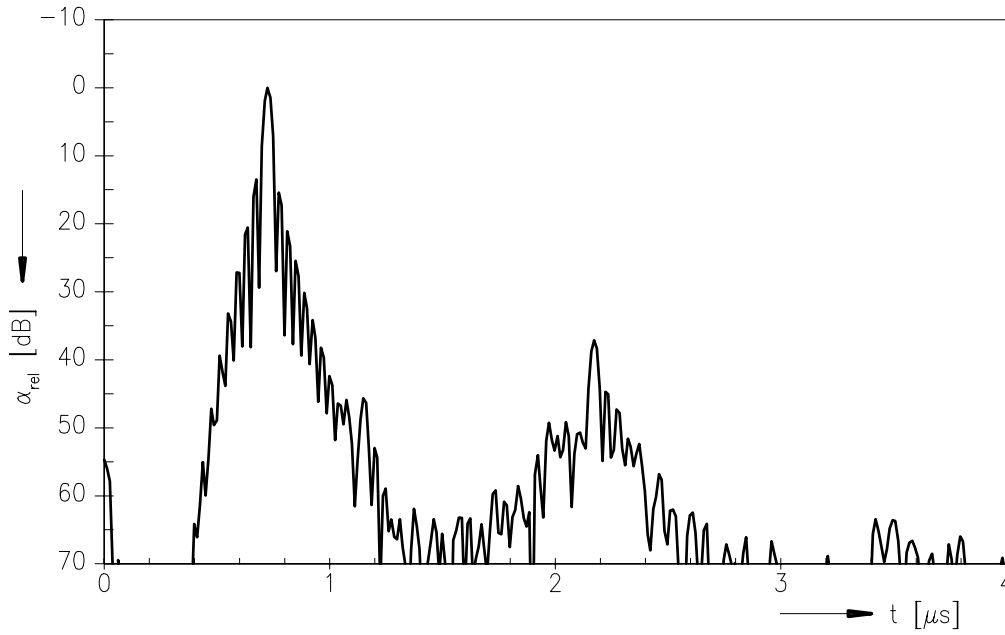


Normalized frequency response (Triple transit signal included)



Data Sheet

Normalized time response



SAW Components**B3606****Low-Loss Filter****140,00 MHz****Data Sheet****Attachment**

1) Pyroelectric pulse amplitude < 50 mV.

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