



SAW Components

Preliminary Data Sheet LH45A





SAW Components

LH45A

Low-Loss Filter for Mobile Communication

2017,5MHz

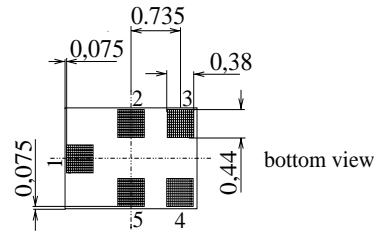
Preliminary Data Sheet



Chip Size Saw Package QCS5C

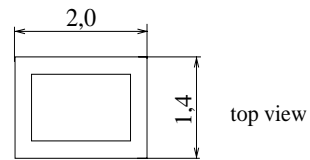
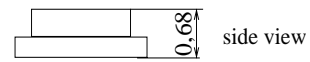
Features

- Low-loss RF filter for mobile telephone TD_SCDMA system
- Low amplitude ripple
- Usable passband 15MHz
- No matching network required for operation at 50Ω
- Package for Surface Mount Technology (SMT)



Terminals

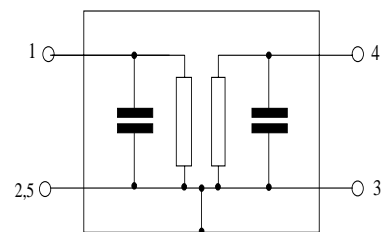
- Ni, Gold-plated



Dimensions in mm, approx. weight tbd.

Pin configuration

- 1 Input
- 4 Output
- 2,3,5 Ground



Type	Ordering code	Marking and Package according to	Packing according to
LH45A	tbd	C61157-A7-A111	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 25/+ 55	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	50	V	



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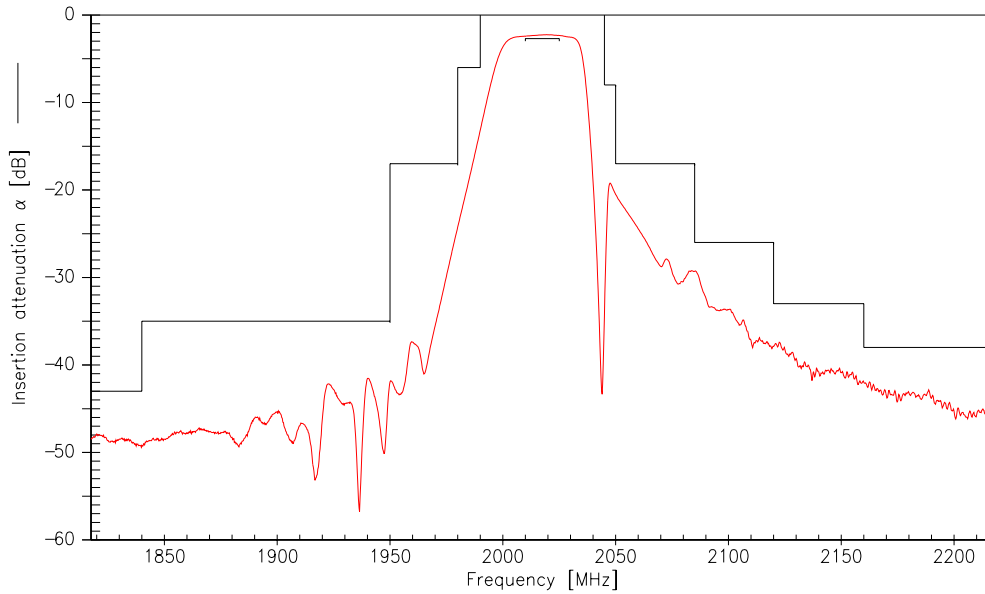
Characteristics

Operating temperature: $T = -25$ to $+55^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\Omega$
 Terminating load impedance: $Z_L = 50\Omega$

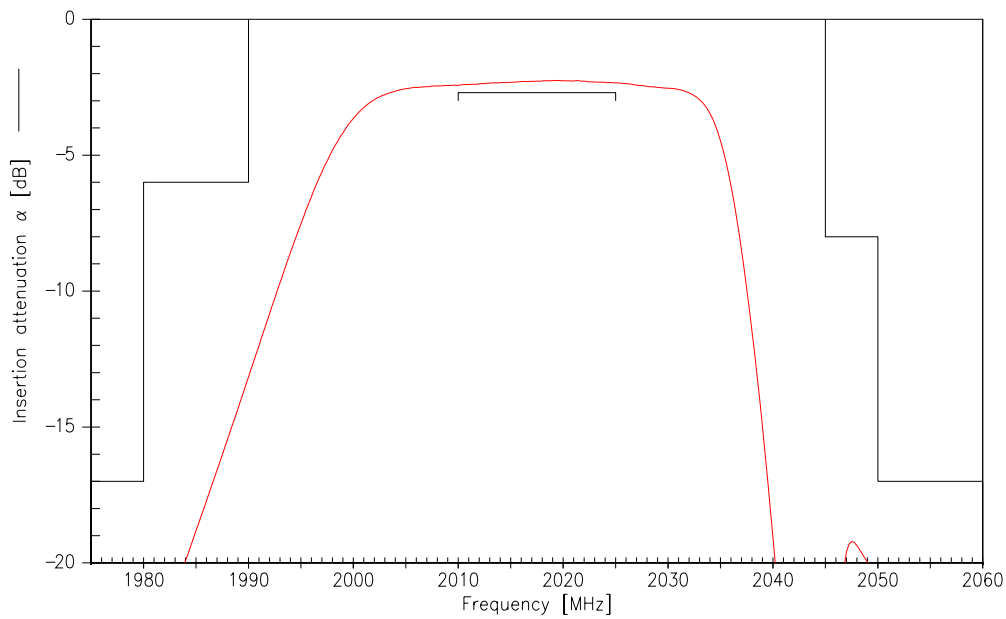
		min.	typ.	max.	
Center frequency	f_c	—	2017,5	—	MHz
Maximum insertion attenuation	α_{\max}				
	2010,0 ... 2025,0MHz	—	2,5	2,7	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	2010,0 ... 2025,0MHz	—	0,25	0,4	dB
Input VSWR					
	2010,0 ... 2025,0MHz	—	1,8	2,1	
Output VSWR					
	2010,0 ... 2025,0MHz	—	1,9	2,1	
Attenuation	α				
	0 ... 1840,0MHz	43	48	—	dB
	1840,0 ... 1950,0MHz	35	40	—	dB
	1950,0 ... 1980,0MHz	17	19	—	dB
	1980,0 ... 1990,0MHz	6	8	—	dB
	2045,0 ... 2050,0MHz	8	16	—	dB
	2050,0 ... 2085,0MHz	17	20	—	dB
	2085,0 ... 2120,0MHz	26	29	—	dB
	2120,0 ... 2160,0 MHz	33	36	—	dB
	2160,0 ... 2400,0MHz	38	41	—	dB
	2400,0 ... 2700,0 MHz	49	52	—	dB
	2700,0 ... 3500,0 MHz	47	50	—	dB
	3500,0 ... 4300,0MHz	42	45	—	dB
	4300,0 ... 5000,0MHz	36	40	—	dB
	5000,0 ... 5500,0MHz	33	36	—	dB
	5500,0 ... 6000,0MHz	28	30	—	dB



Transfer function (Passband):

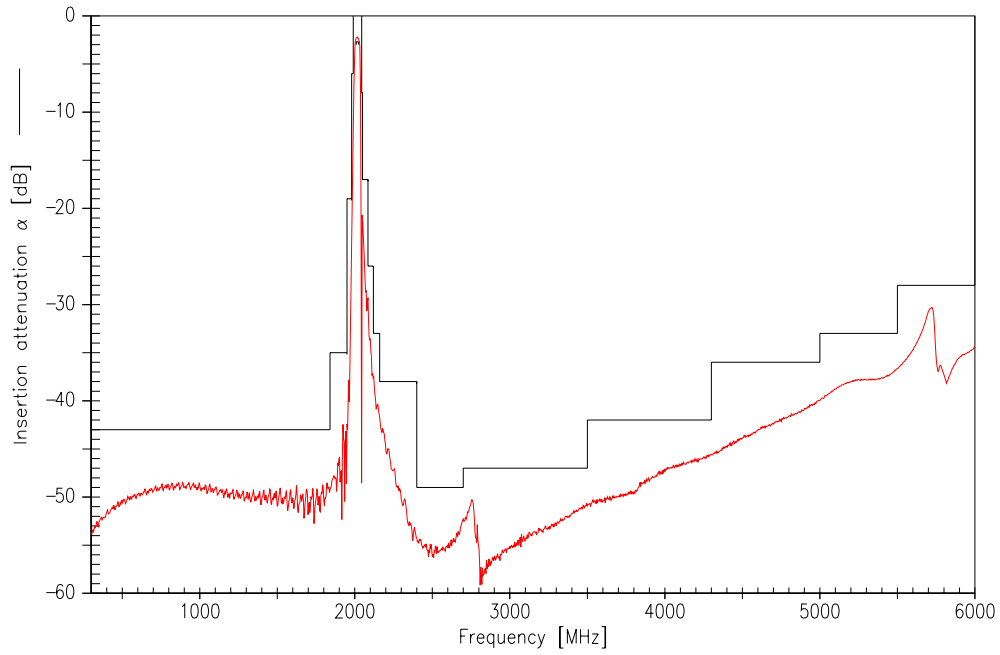


Transfer function (Narrowband):





Transfer function (Wideband) :





SAW Components

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Low-Loss Filter for Mobile Communication

2017,5MHz

Preliminary Data Sheet



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Surface Acoustic Wave Components Division, SAW MC WT

P.O. Box 80 17 09, 81617 Munich, GERMANY

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SAW Components

Preliminary Data LH46B

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a glowing, white, sans-serif font, appearing to be part of a larger, curved structure that resembles a stylized globe or a series of overlapping planes. The background is dark and textured.



SAW Components

LH46B

Low-Loss Filter for Mobile Communication

2017,5 MHz

Preliminary Data



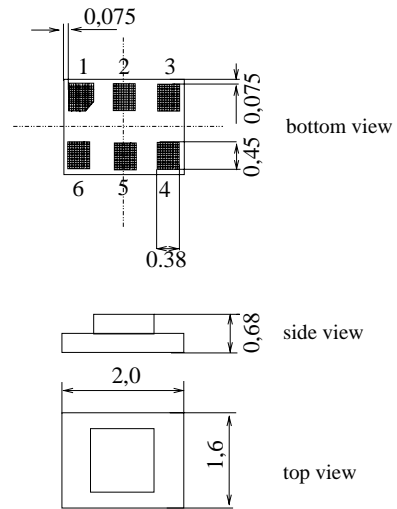
Features

- Low-loss RF filter for mobile telephone TD_SCDMA system
- Low amplitude ripple
- Usable passband 15 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50Ω to 200Ω
- No matching network required
- Package for **Surface Mounted Technology (SMT)**

Terminals

- Gold-plated Ni

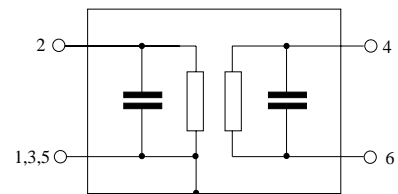
Chip Size SAW package DCS6T



Dimensions in mm, approx. weight 0,012 g

Pin configuration

- 2 Input
- 4, 6 Balanced output
- 1, 3, 5 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
LH46B			

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 25 / + 55	°C
Storage temperature range	T_{stg}	- 40 / + 85	°C
DC voltage	V_{DC}	5	V
ESD voltage	V_{ESD}	50	V



SAW Components	LH46B
Low-Loss Filter for Mobile Communication	2017,5 MHz

Preliminary Data



Characteristics

Operating temperature range: $T = -25$ to $+55$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 200 \Omega$ (balanced)

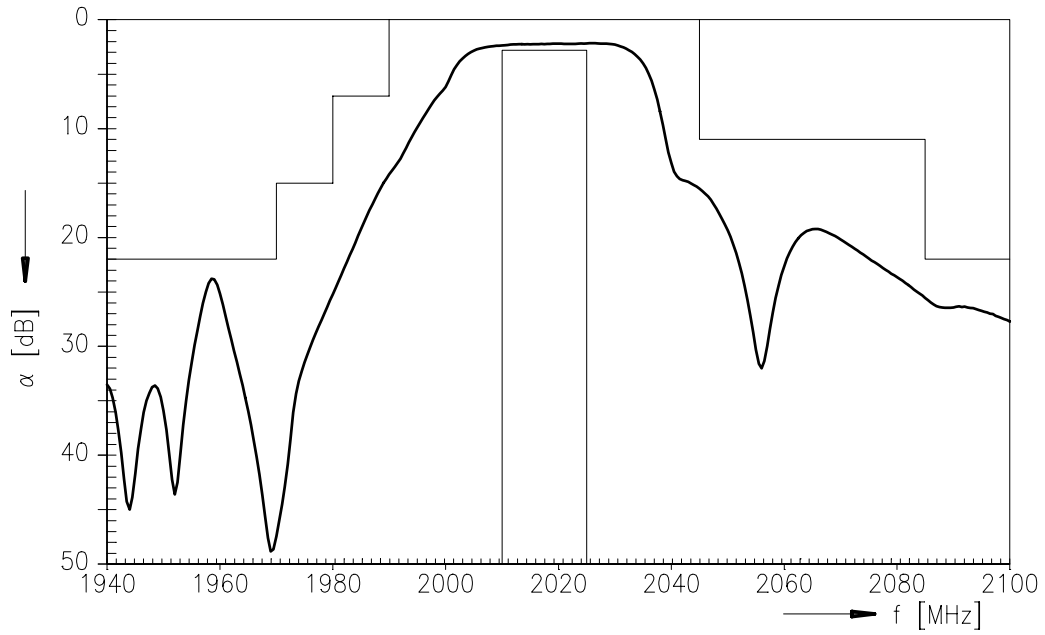
				min.	typ.	max.		
Center frequency		f_C		—	2017,5	—	MHz	
Maximum insertion attenuation		α_{max}		—	2,5	2,8	dB	
	2010,0 ... 2025,0	MHz						
Amplitude ripple (p-p)		$\Delta\alpha$		—	0,4	0,7	dB	
	2010,0 ... 2025,0	MHz						
Input VSWR				—	1,9	2,1		
	2010,0 ... 2025,0	MHz						
Output VSWR				—	1,6	1,8		
	2010,0 ... 2025,0	MHz						
Attenuation		α						
	0,0 ... 1840,0	MHz		51	54	—	dB	
	1840,0 ... 1970,0	MHz		22	27	—	dB	
	1970,0 ... 1980,0	MHz		15	21	—	dB	
	1980,0 ... 1990,0	MHz		7	11	—	dB	
	2045,0 ... 2085,0	MHz		11	14	—	dB	
	2085,0 ... 2120,0	MHz		22	24	—	dB	
	2120,0 ... 2160,0	MHz		30	34	—	dB	
	2160,0 ... 2300,0	MHz		36	40	—	dB	
	2300,0 ... 3000,0	MHz		42	45	—	dB	
	3000,0 ... 6000,0	MHz		56	62	—	dB	



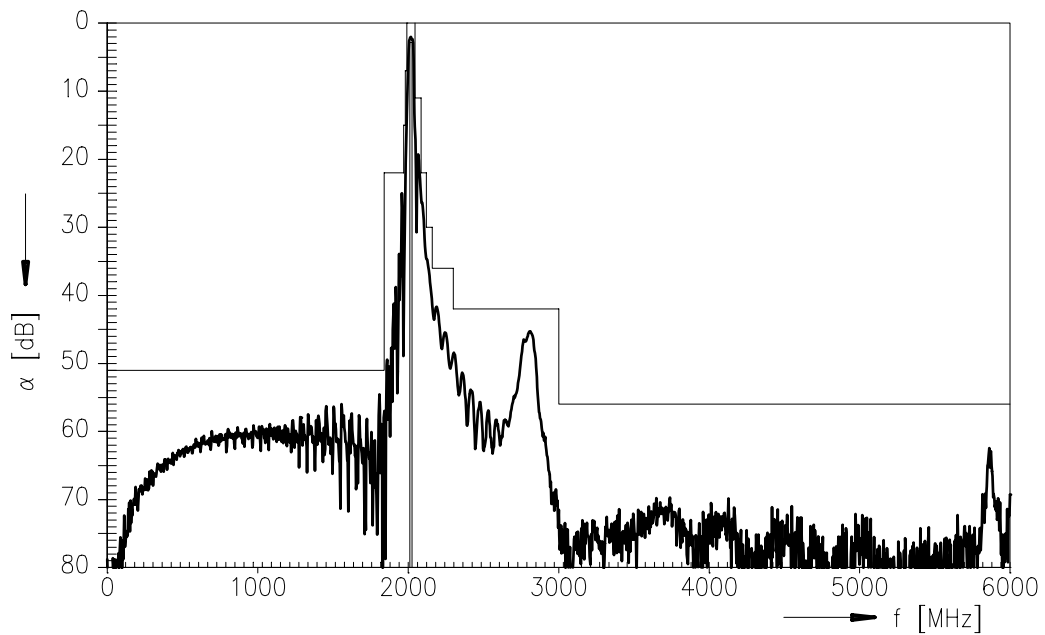
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Transfer function



Transfer function (wide band)





SAW Components

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