



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SAW Components

Data Sheet B7766

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, 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

B7766

Low-Loss Filter

2441,75 MHz

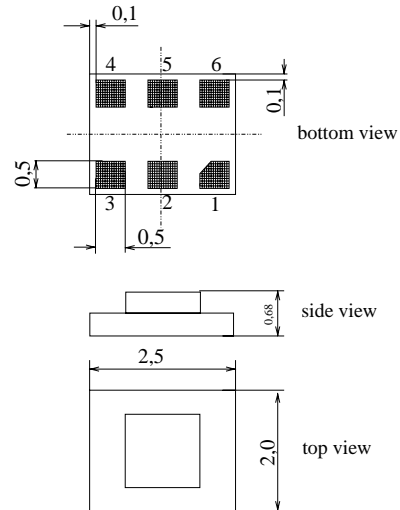
Data Sheet



Chip Sized Saw Package DCS6K

Features

- Low-loss RF filter for bluetooth
- Usable passband 83,5 MHz
- Unbalanced to balanced operation
- Impedance transformation
- Package for **Surface Mounted Technology (SMT)**



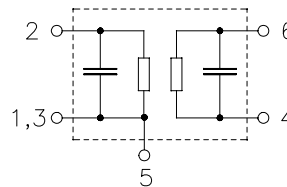
Dimensions in mm, approx. weight 0,010g

Terminals

- Ni, gold-plated

Pin configuration

- 2 Input, unbalanced
- 1, 3 Input ground
- 4, 6 Output, balanced
- 5 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7766	B39242-B7766-C911	C61157-A7-A123	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 /+ 85	°C	Machine Model, 10 pulses source/load impedance 50Ω / 120Ω c.w.
Storage temperature range	T_{stg}	- 40 /+ 85	°C	
DC voltage	V_{DC}	3,5	V	
ESD voltage	V_{ESD}	50*	V	
Input power max.	P_{IN}	8	dBm	
2400...2483,5 MHz		25		
824...849, 880...915 MHz 1710..1785, 1850..1910 MHz		23		

* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



Characteristics (matching for a chipset impedance of $120\ \Omega \parallel 0,6\text{pF}$)

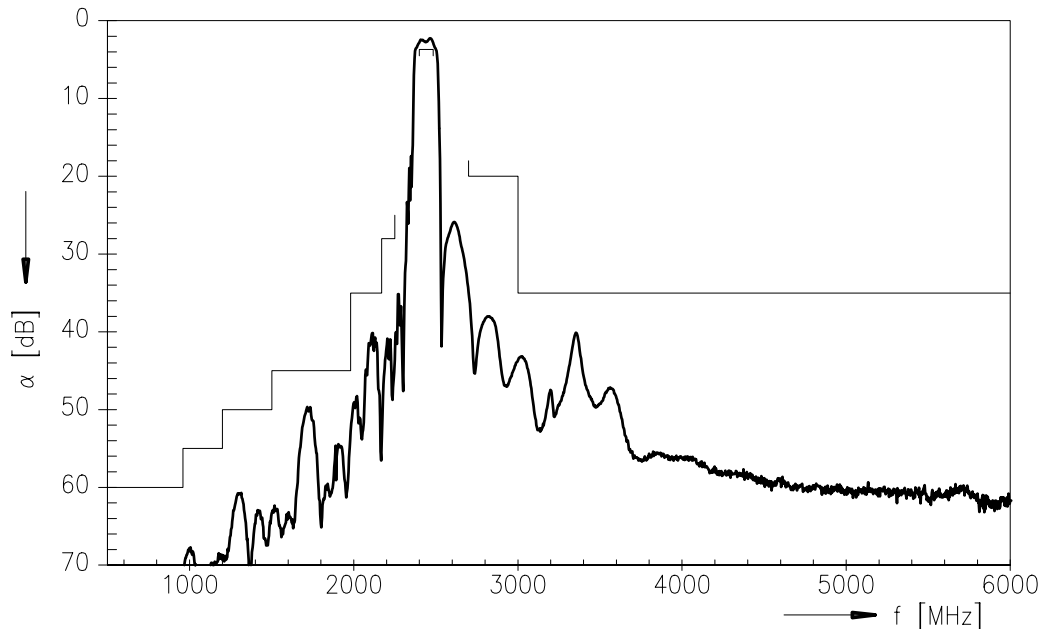
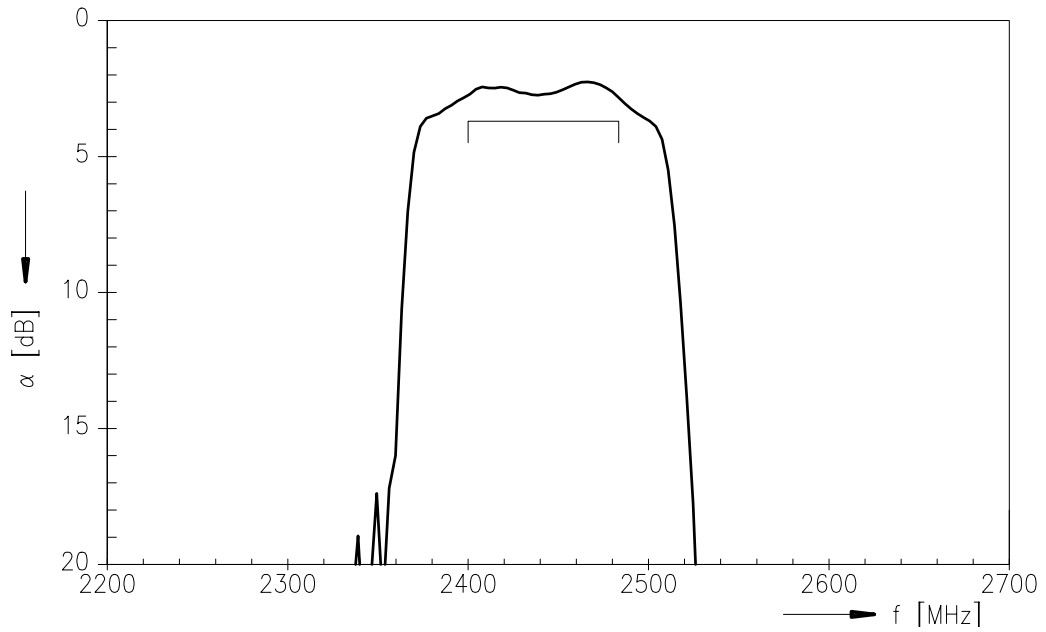
Operating temperature range: $T = -40$ to $+85\ \text{°C}$
 Terminating source impedance: $Z_S = 50\ \Omega \parallel 8,2\text{nH}$
 Terminating load impedance: $Z_L = (120\ \Omega \parallel 0,6\text{pF}) \parallel 3,9\text{nH}$ *)

		min.	typ.	max.	
Center frequency	f_c	—	2441,75	—	MHz
Maximum insertion attenuation	α_{\max}	—	3,0	3,7	dB
2400,0 ... 2483,5 MHz					
Return loss		—	9,0	—	dB
2400,0 ... 2483,5 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,0	2,0	dB
2400,0 ... 2483,5 MHz					
Attenuation	α				dB
500,0 ... 960,0 MHz		60	70	—	
960,0 ... 1200,0 MHz		55	68	—	
1200,0 ... 1501,0 MHz		50	61	—	
1501,0 ... 1980,0 MHz		45	50	—	
1980,0 ... 2170,0 MHz		35	39	—	
2170,0 ... 2250,0 MHz		28	40	—	
2700,0 ... 3000,0 MHz		20	34	—	
3000,0 ... 4000,0 MHz		35	40	—	
4000,0 ... 6000,0 MHz		35	56	—	

*) equals $120\ \Omega \parallel 8,2\text{nH}$



Transfer function





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B7766

Low-Loss Filter

2441,75 MHz

Data Sheet



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This brochure replaces the previous edition.

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Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.