



**THE DATASHEET OF  
B39242B7766C911**





# SAW Components

Data Sheet B7766





SAW Components

B7766

Low-Loss Filter

2441,75 MHz

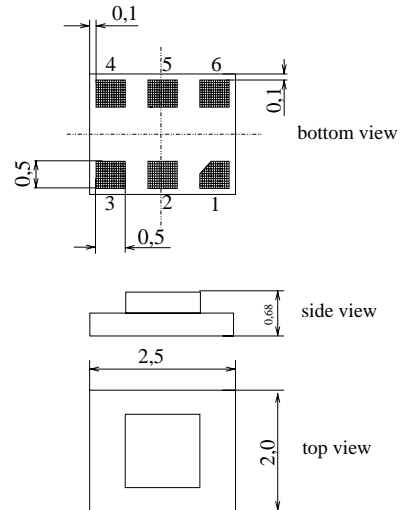
Data Sheet



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)**



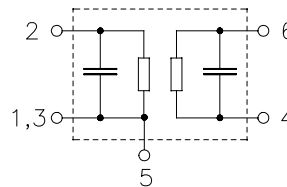
**Terminals**

- Ni, gold-plated

Dimensions in mm, approx. weight 0,010g

**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 25 23	dBm	
2400...2483,5 MHz		8		
824...849, 880...915 MHz		25		
1710..1785, 1850..1910 MHz		23		

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



SAW Components

B7766

Low-Loss Filter

2441,75 MHz

Data Sheet



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

Operating temperature range:  $T = -40$  to  $+85\ ^\circ\text{C}$   
 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.	
<b>Center frequency</b>	$f_c$	—	2441,75	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\text{max}}$	—	3,0	3,7	dB
2400,0 ... 2483,5 MHz					
<b>Return loss</b>		—	9,0	—	dB
2400,0 ... 2483,5 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	1,0	2,0	dB
2400,0 ... 2483,5 MHz					
<b>Attenuation</b>	$\alpha$				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  $120\ \Omega \parallel 8,2\text{nH}$



SAW Components

B7766

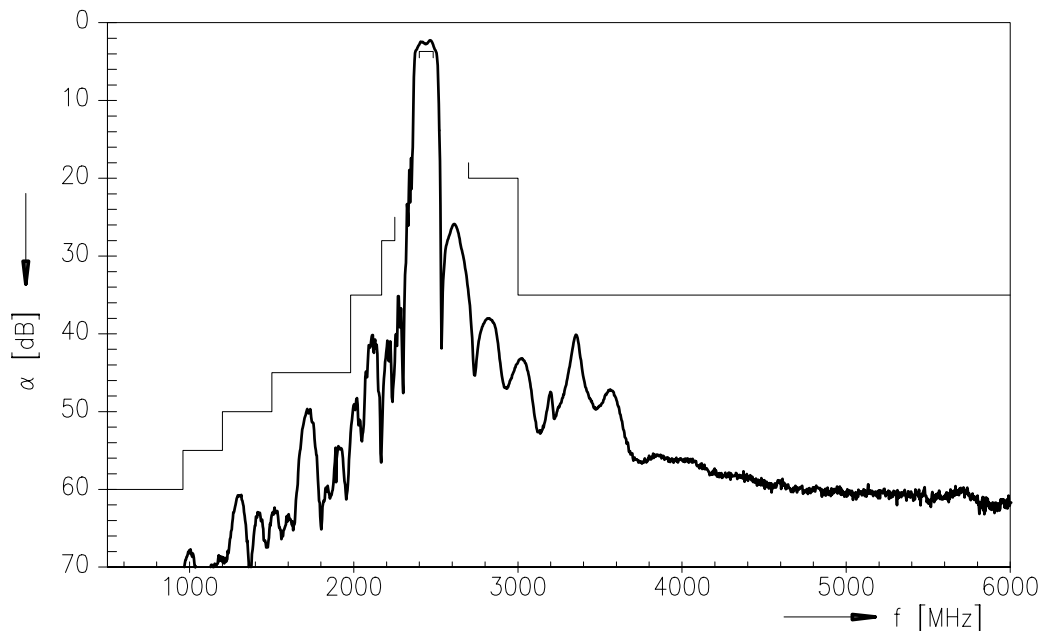
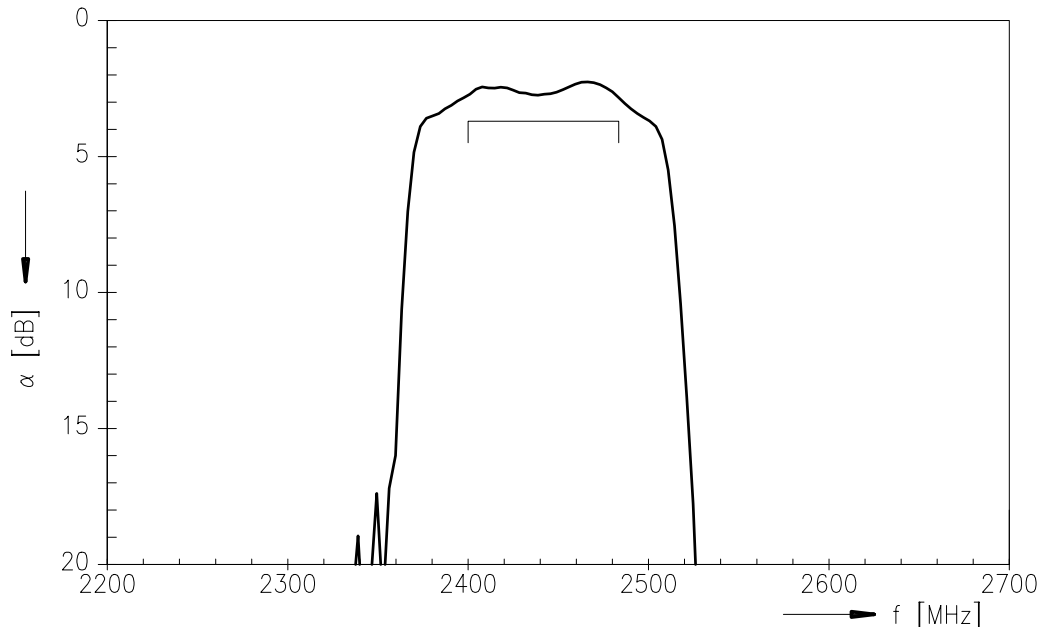
Low-Loss Filter

2441,75 MHz

Data Sheet



### Transfer function





**SAW Components**

**B7766**

**Low-Loss Filter**

**2441,75 MHz**

Data Sheet



**Published by EPCOS AG**

**SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY**

**TEL +49 89 636 09, FAX +49 89 636 2 26 89**

© EPCOS AG 2004. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.



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.

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

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View B39242B7766C911 on WIN SOURCE](#)
-  [EPCOS \(TDK\) Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management