EPCOS

SAW Components

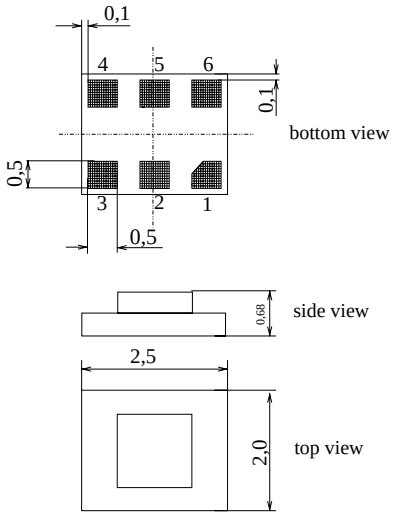
Data Sheet B7766



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 **S**urface **M**ounted **T**echnology (**SMT**)



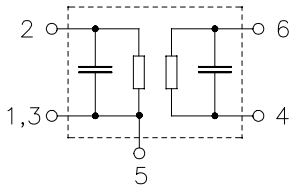
Terminals

- 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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

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

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

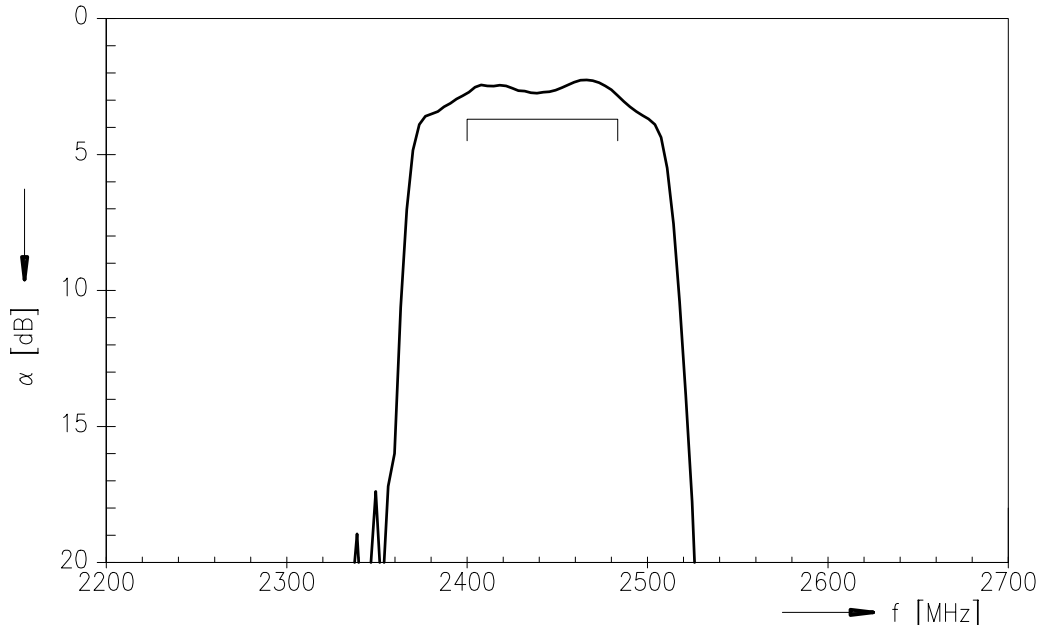
Characteristics (matching for a chipset impedance of 120 Ω || 0,6pF**)**

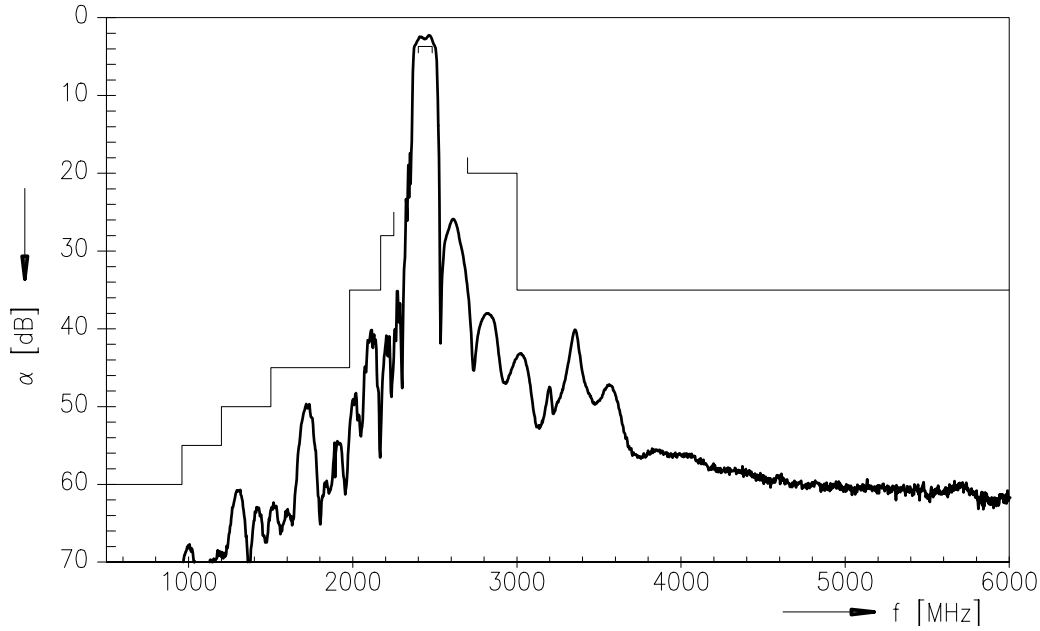
Operating temperature range: T = -40 to + 85 °C
Terminating source impedance: Z_S = 50Ω || 8,2nH
Terminating load impedance: Z_L = (120Ω || 0,6pF) || 3,9nH *)

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

*) equals 120Ω || 8,2nH

Transfer function





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