EPCOS

SAW Components

Data Sheet B7748

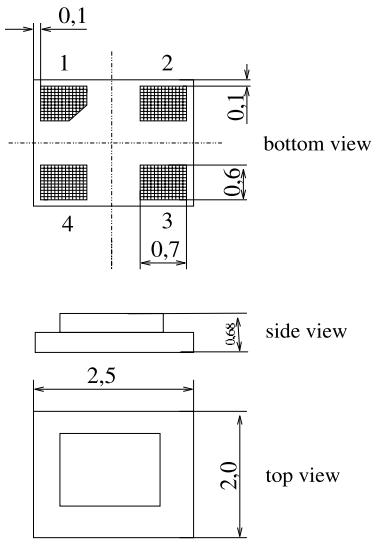
Chip sized SAW package **DCS4E**

Features

- Low-loss RF filter for cell system, transmit path
- High counterband suppression
- Usable passband 25 MHz
- Unbalanced/unbalanced operation
- Package size: 2 mm x 2.5 mm (4 pin, diagonal pinning)

Terminals

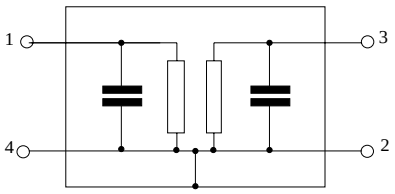
- Ni, gold-plated



Dimensions in mm, approx weight 0,012g

Pin configuration

1	Input
3	Output
2,4	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7748	B39841-B7748-E510	C61157-A7-A121	F61074-V8153-Z000

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

Maximum ratings

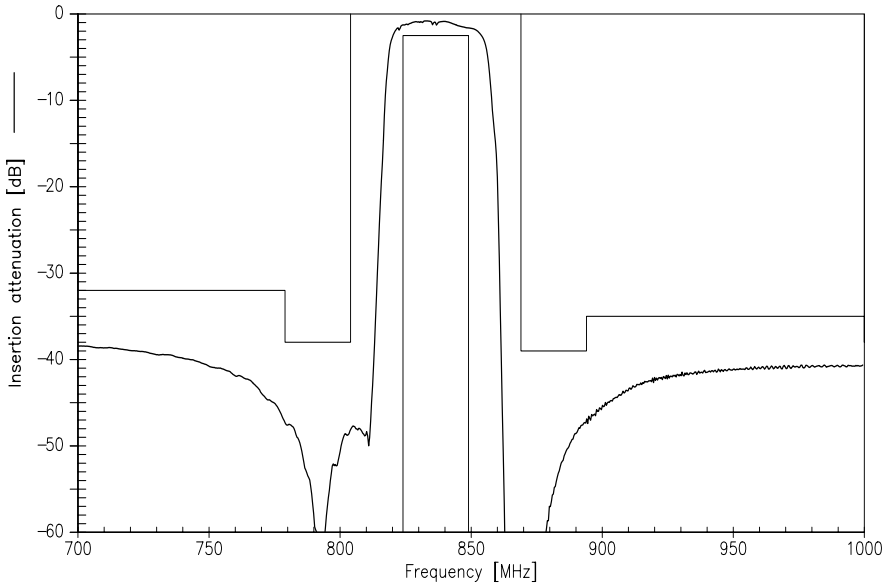
Operable temperature range	T	– 30 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50	V	
Source power	P_s	16	dBm	source impedance 50 Ω

Characteristics

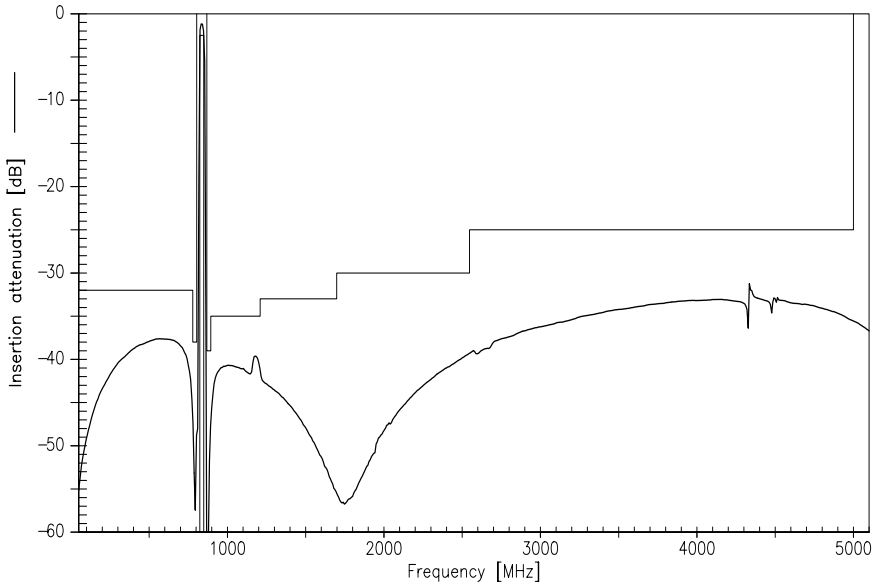
Operating temperature range: T = -30 to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_C	—	836,5	—	MHz
Maximum insertion attenuation	α_{max}				
824,0 ... 849,0 MHz		—	2,0	2,5	dB
Ripple	p-p				
824,0 ... 849,0 MHz		—	1,3	1,7	dB
Input return loss @ 50 Ohm					
824,0 ... 849,0 MHz		11	12	---	dB
Output return loss @ 50 Ohm					
824,0 ... 849,0 MHz		11	12	---	dB
Attenuation	α				
0,0 ... 779,0 MHz		32	37	—	dB
779,0 ... 804,0 MHz		38	45	—	dB
869,0 ... 894,0 MHz		39	46	—	dB
894,0 ...1029,0 MHz		35	40	—	dB
1029,0 ...1209,0 MHz		35	39	—	dB
1209,0 ...1306,0 MHz		33	39	—	dB
1306,0 ...1698,0 MHz		33	43	—	dB
1698,0 ...2547,0 MHz		30	38	—	dB
2547,0 ...5000,0 MHz		25	30	—	dB

Transfer function:



Transfer function (wide band):



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This brochure replaces the previous edition.

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