



SAW Components

Data Sheet B5008





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B5008

Low-Loss Filter

833,0 MHz

Data Sheet

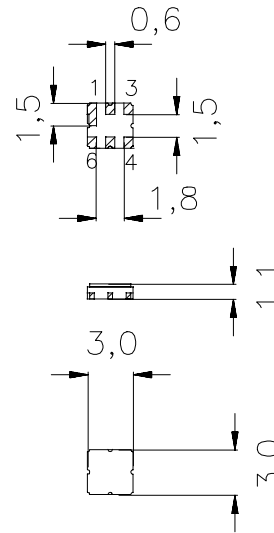
Ceramic package DCC6C

Features

- Low-loss RF filter for Multi Carrier Basestation (CDMA), receive path
- Usable bandwidth 34 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

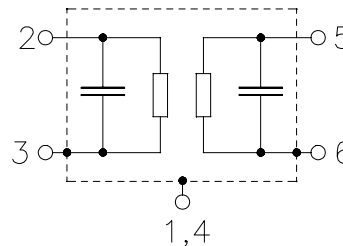
- Ni, gold-plated



typ. Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B5008	B39831-B5008-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-40 / +85	°C	
Storage temperature range	T _{stg}	-40 / +85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V _{ESD}	100 ¹⁾	V	Machine Model, 10 pulses
Input power max.	P _{IN}	12	dBm	continuous wave, 85 °C
861,0 ... 894,0 MHz	P _{IN}	15	dBm	continuous wave, 55 °C

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



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Characteristics

Operating temperature range: $T = 25 \pm 2 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	833,0	—	MHz
Maximum insertion attenuation 816,0 MHz ... 850,0 MHz	α_{\max}	—	1,9	3,0	dB
Amplitude ripple (p-p) 816,0 MHz ... 850,0 MHz	$\Delta\alpha$	—	1,0	2,0	dB
Return loss (Input and Output) 816,0 MHz ... 850,0 MHz		10	11,5	—	dB
Absolute attenuation	α_{abs}				
861,0 MHz ... 894,0 MHz		12	21	—	dB
985,0 MHz ... 1020,0 MHz		20	35	—	dB



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Operating temperature range: $T = +35 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	833,0	—	MHz
Maximum insertion attenuation 816,0 MHz ... 850,0 MHz	α_{\max}	—	2,1	3,0	dB
Amplitude ripple (p-p) 816,0 MHz ... 850,0 MHz	$\Delta\alpha$	—	1,1	2,0	dB
Return loss (Input and Output) 816,0 MHz ... 850,0 MHz		10	11,5	—	dB
Absolute attenuation	α_{abs}				
861,0 MHz ... 894,0 MHz		12	21	—	dB
985,0 MHz ... 1020,0 MHz		20	35	—	dB



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Characteristics

Operating temperature range: $T = 0 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	833,0	—	MHz
Maximum insertion attenuation 816,0 MHz ... 850,0 MHz	α_{\max}	—	2,1	3,5	dB
Amplitude ripple (p-p) 816,0 MHz ... 850,0 MHz	$\Delta\alpha$	—	1,1	2,5	dB
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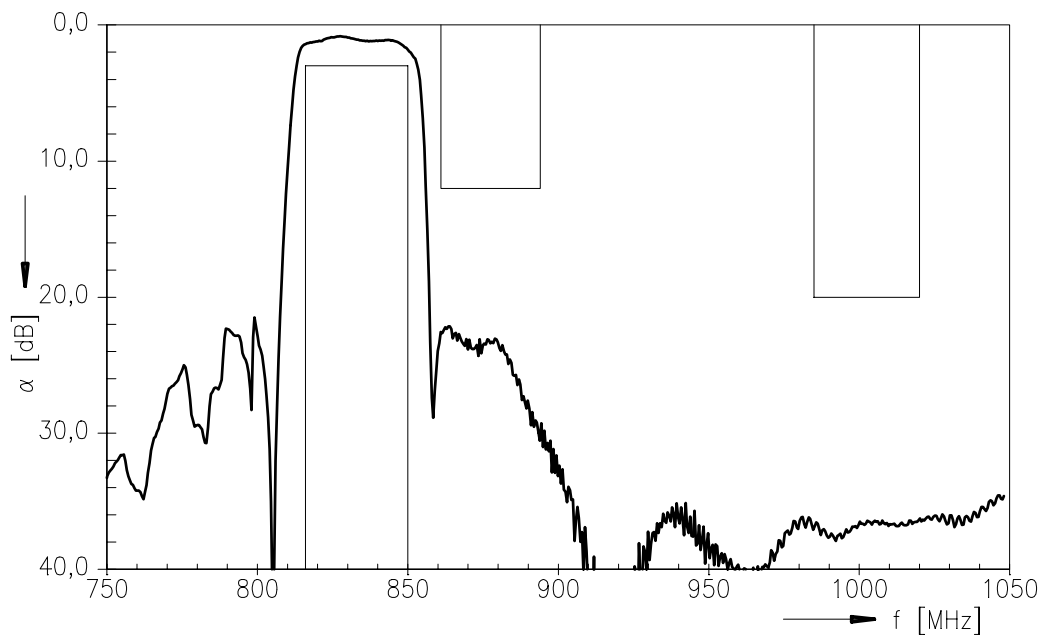
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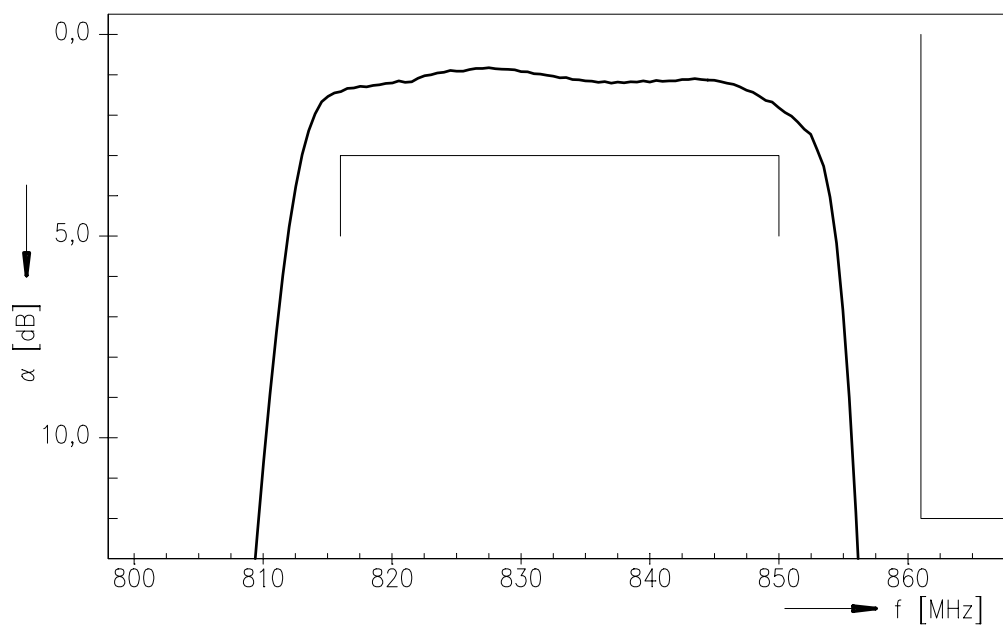
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Transfer function



Transfer function (pass band)





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Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC
P.O. Box 80 17 09, 81617 Munich, GERMANY

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