EPCOS

SAW Components

Data Sheet B5008

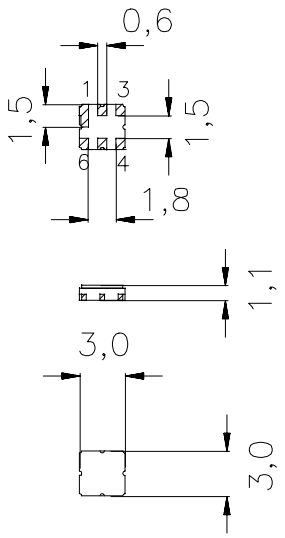
Ceramic package DCC6C

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

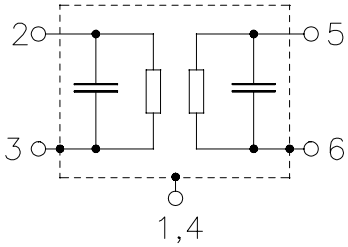
- Ni, gold-plated



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 **S**ensitive **D**evice (**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.				
861,0 ... 894,0 MHz	P_{IN}	12	dBm	continuous wave, 85 ˚C
	P_{IN}	15	dBm	continuous wave, 55 ˚C

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

Characteristics

Operating temperature range: T = 25 ± 2 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	833,0	—	MHz
Maximum insertion attenuation	α_{max}				
816,0 MHz ... 850,0 MHz		—	1,9	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
816,0 MHz ... 850,0 MHz		—	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

Characteristics

Operating temperature range: T = +35 ... +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

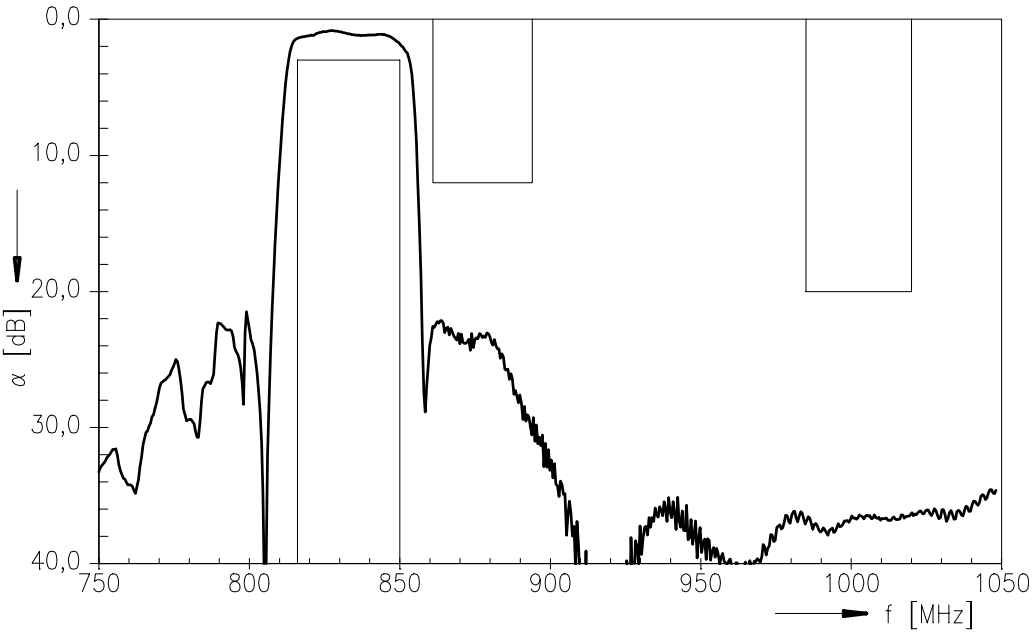
		min.	typ.	max.	
Nominal frequency	f_N	—	833,0	—	MHz
Maximum insertion attenuation	α_{max}				
816,0 MHz ... 850,0 MHz		—	2,1	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
816,0 MHz ... 850,0 MHz		—	1,1	2,0	dB
Return loss (Input and Output)					
816,0 MHz ... 850,0 MHz		10	11,5	—	dB
Absolute attenuation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

Characteristics

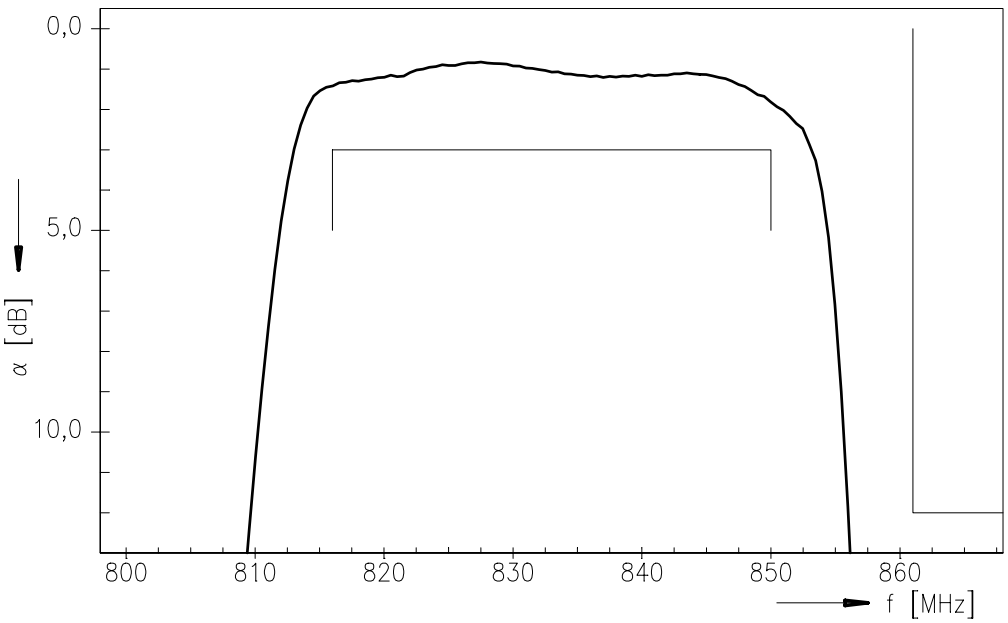
Operating temperature range: T = 0 ... +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	833,0	—	MHz
Maximum insertion attenuation	α_{max}				
816,0 MHz ... 850,0 MHz		—	2,1	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
816,0 MHz ... 850,0 MHz		—	1,1	2,5	dB
Return loss (Input and Output)					
816,0 MHz ... 850,0 MHz		9	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

Transfer function



Transfer function (pass band)



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