



# SAW Components

Data Sheet B3832





**SAW Components**

**B3832**

**Low-Loss Filter**

**1747,5 MHz**

**Data Sheet**

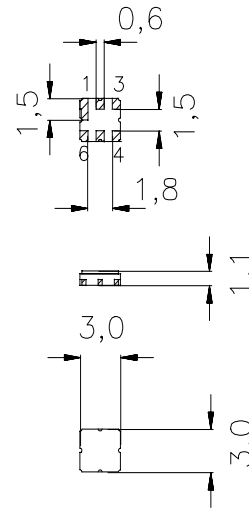
**Ceramic package DCC6C**

**Features**

- Low-loss filter GSM 1800 Rx
- Usable bandwidth 75 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- RoHs compatible

**Terminals**

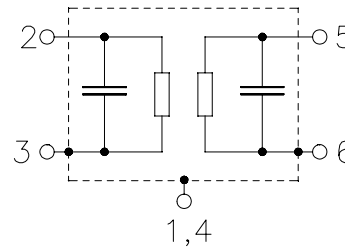
- Gold-plated



typ. Dimensions in mm, approx. weight 0,05 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
B3832	B39172-B3832-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T_A$	-40 / +85	°C	Machine Model, 10 pulses
Storage temperature range	$T_{stg}$	-40 / +85	°C	
DC voltage	$V_{DC}$	0	V	
ESD voltage	$V^*_{ESD}$	50*	V	
Input power at				continuous wave, 2000 hours, 70°C
1710 ... 1785 MHz	$P_{IN}$	0	dBm	
		5	dBm	continuous wave, 1 hour, 70°C

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



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**Characteristics**

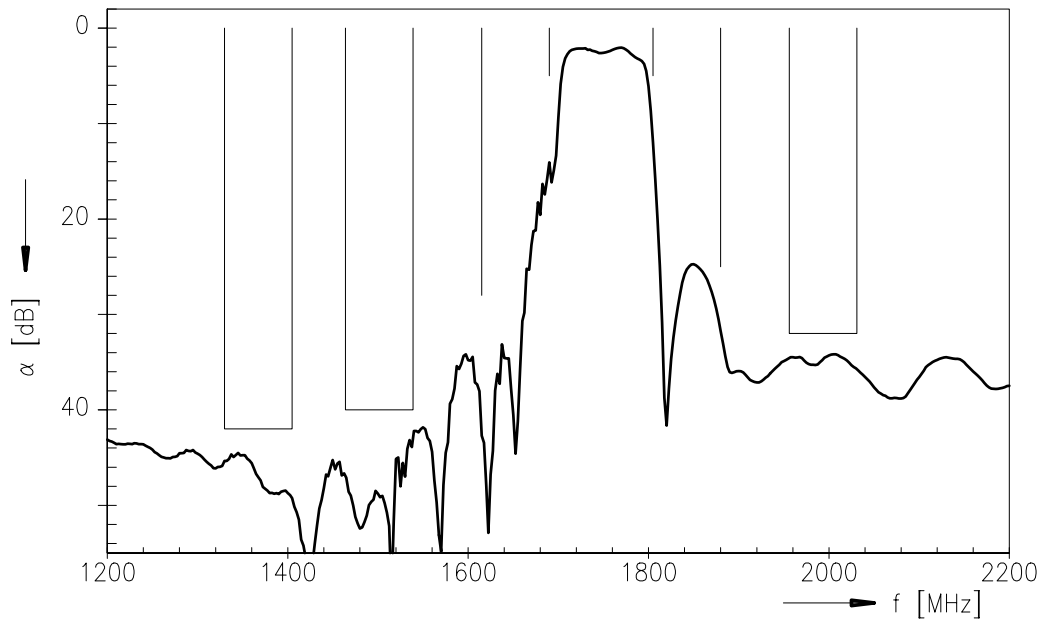
Operating temperature range:  $T_A = -0 \dots +70 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	1747,5	—	MHz
<b>Maximum insertion attenuation</b> 1710,0 MHz ... 1785,0 MHz	$\alpha_{\max}$	—	3,1	4,0	dB
<b>Amplitude ripple (p-p)</b> 1710,0 MHz ... 1785,0 MHz	$\Delta\alpha$	—	1,1	2,0	dB
<b>VSWR</b> 1710,0 MHz ... 1785,0 MHz		—	2,2	3,0	
<b>Absolute attenuation</b>	$\alpha_{\text{abs}}$				
1330,0 MHz ... 1405,0 MHz		42	45	—	dB
1464,0 MHz ... 1539,0 MHz		40	43	—	dB
1615,0 MHz		28	35	—	dB
1690,0 MHz		5	12	—	dB
1805,0 MHz		5	14	—	dB
1880,0 MHz		25	32	—	dB
1956,0 MHz ... 2031,0 MHz		32	34	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-36	—	ppm/K

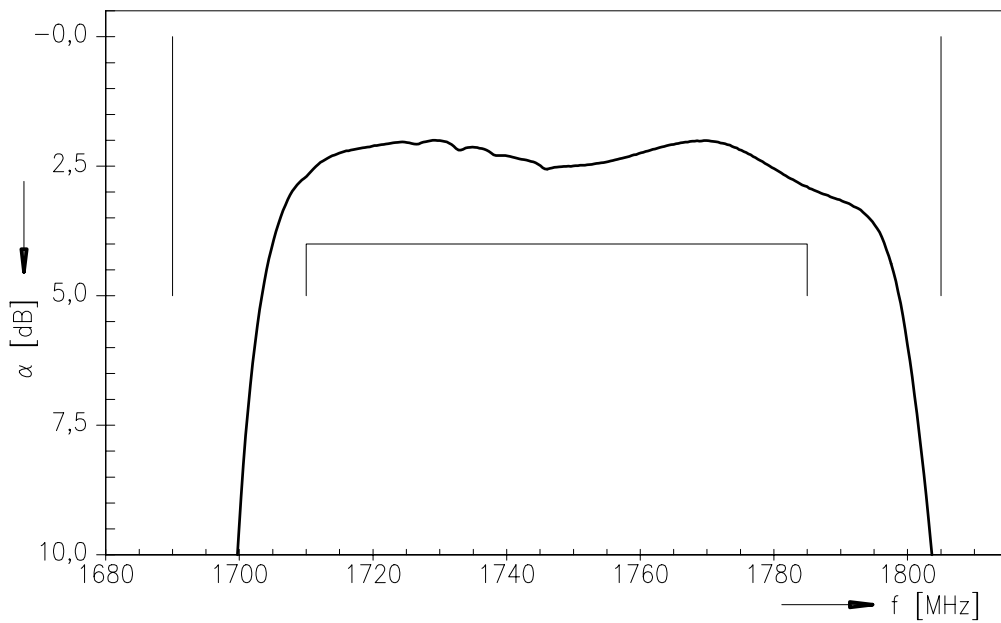


Data Sheet

Transfer function



Transfer function (passband)





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