



SAW Components

Data Sheet B3832

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or global theme.



SAW Components

B3832

Low-Loss Filter

1747,5 MHz

Data Sheet

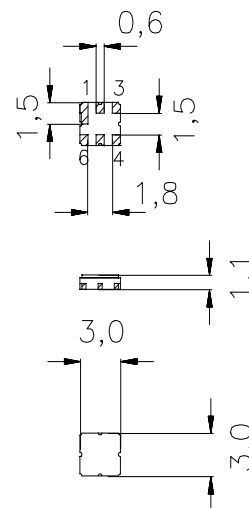
Ceramic package DCC6C

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

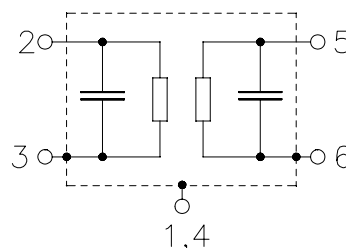
- Gold-plated



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

*-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.	
Nominal frequency	f_N	—	1747,5	—	MHz
Maximum insertion attenuation 1710,0 MHz ... 1785,0 MHz	$\alpha_{\max}$	—	3,1	4,0	dB
Amplitude ripple (p-p) 1710,0 MHz ... 1785,0 MHz	$\Delta\alpha$	—	1,1	2,0	dB
VSWR 1710,0 MHz ... 1785,0 MHz		—	2,2	3,0	
Absolute attenuation	α_{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
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



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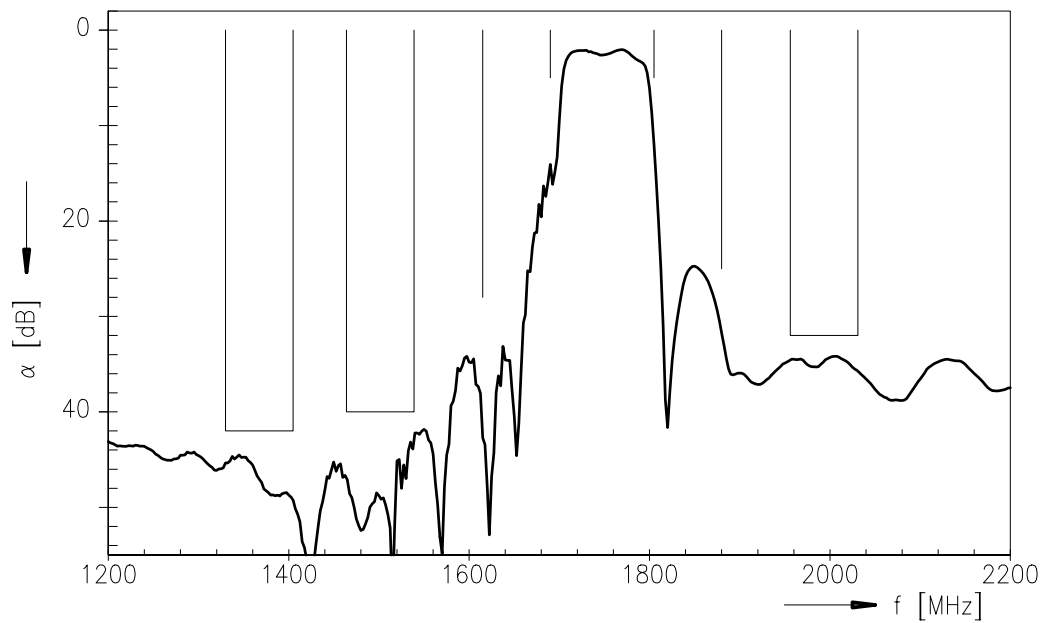
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Low-Loss Filter

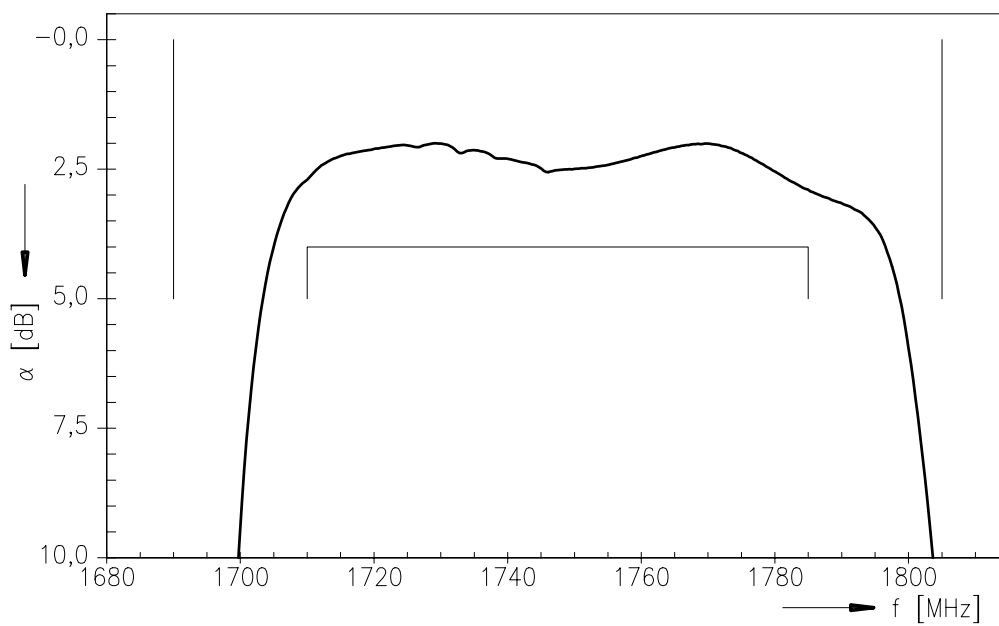
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Transfer function



Transfer function (passband)





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This brochure replaces the previous edition.

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