

# **SAW Components**

Data Sheet B3832





SAW Components B3832
Low-Loss Filter 1747,5 MHz

**Data Sheet** 

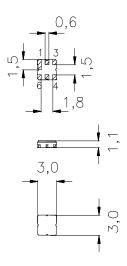
# Ceramic package DCC6C

#### **Features**

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

#### **Terminals**

Gold-plated

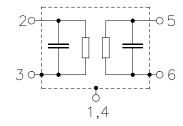


typ. Dimensions in mm, approx. weight 0,05 g

# Pin configuration

2 Input5 Output

1, 3, 4, 6 To be grounded



Туре	Ordering code	Marking and Package	Packing
		according to	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	
Storage temperature range	$T_{stg}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
ESD voltage	V* <sub>ESD</sub>	50*	V	Machine Model, 10 pulses
Input power at 1710 1785 MHz	$P_{IN}$	0	dBm	continuous wave, 2000 hours, 70°C
		5	dBm	continuous wave, 1 hour, 70°C

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



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Characteristics

Operating temperature range:

 $T_{A} = -0 \dots +70 \,^{\circ} \text{C}$   $Z_{S} = 50 \,\Omega$   $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

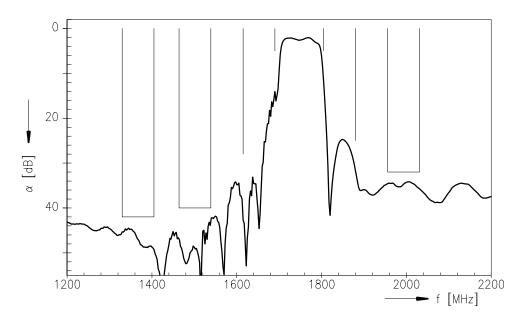
		min.	typ.	max.	
Nominal frequency	f <sub>N</sub>	_	1747,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
1710,0 MHz 1785,0 MHz		_	3,1	4,0	dB
Amplitude ripple (p-p)	Δα				
1710,0 MHz 1785,0 MHz		_	1,1	2,0	dB
VSWR					
1710,0 MHz 1785,0 MHz		_	2,2	3,0	
Absolute attenuation	$\alpha_{abs}$				
1330,0 MHz 1405,0 MHz	abo	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 <sub>f</sub>	_	- 36	_	ppm/K



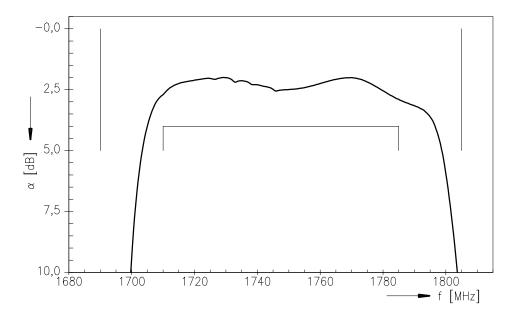
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# **Transfer function**



# Transfer function (passband)





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