



# SAW Components

Data Sheet B7831





**SAW Components**

**B7831**

**Low-Loss Filter for Mobile Communication**

**1765,00 MHz**

**Data Sheet**



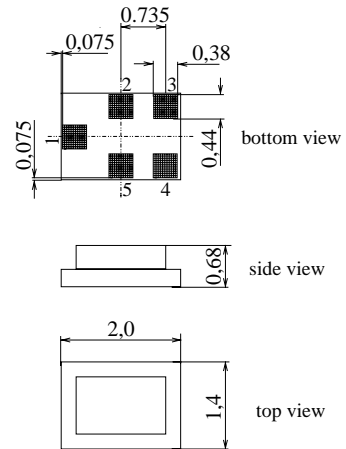
Chip sized SAW package

**Features**

- Low-loss RF filter for mobile telephone Korean PCS systems, transmit path
- Usable passband 30 MHz
- No matching network required for operation at 50 Ω
- Ceramic package for **Surface Mounted** technology (**SMT**)

**Terminals**

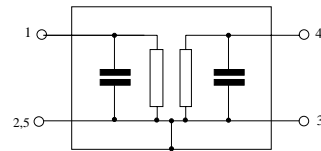
- Ni, gold-plated



Dimensions in mm, approx. weight 0,007 g

**Pin configuration**

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



Type	Ordering code	Marking and Package according to	Packing according to
B7831	B39182-B7831-C710	C61157-A7-A111	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	- 30/+ 85	°C	CDMA signal
Storage temperature range	$T_{stg}$	- 40/+ 85	°C	
DC voltage	$V_{DC}$	0	V	
Input power max.	$P_{IN}$	10	dBm	



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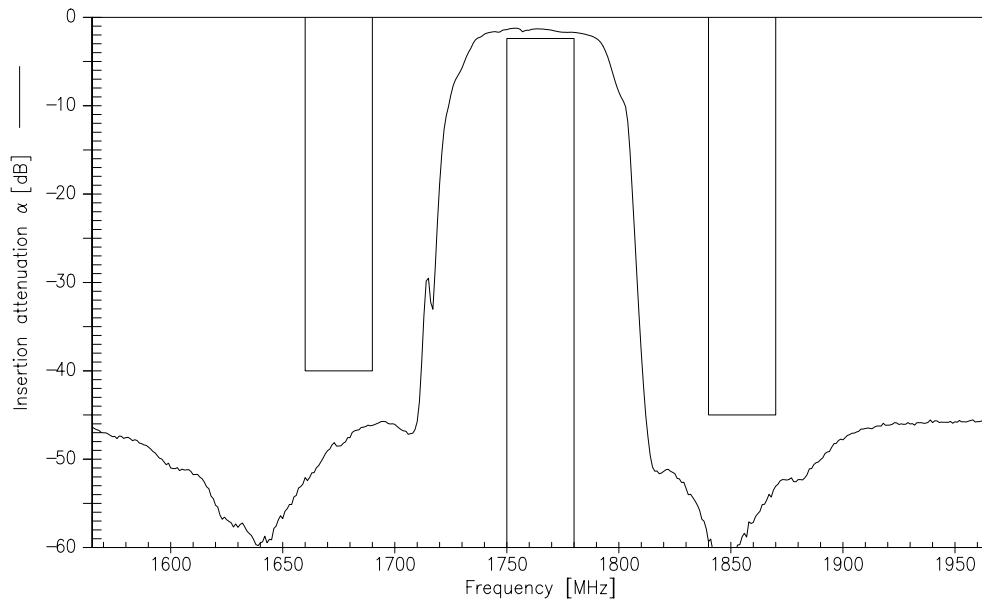
**Characteristics**

Operating temperature range:  $T = -30$  to  $+85^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

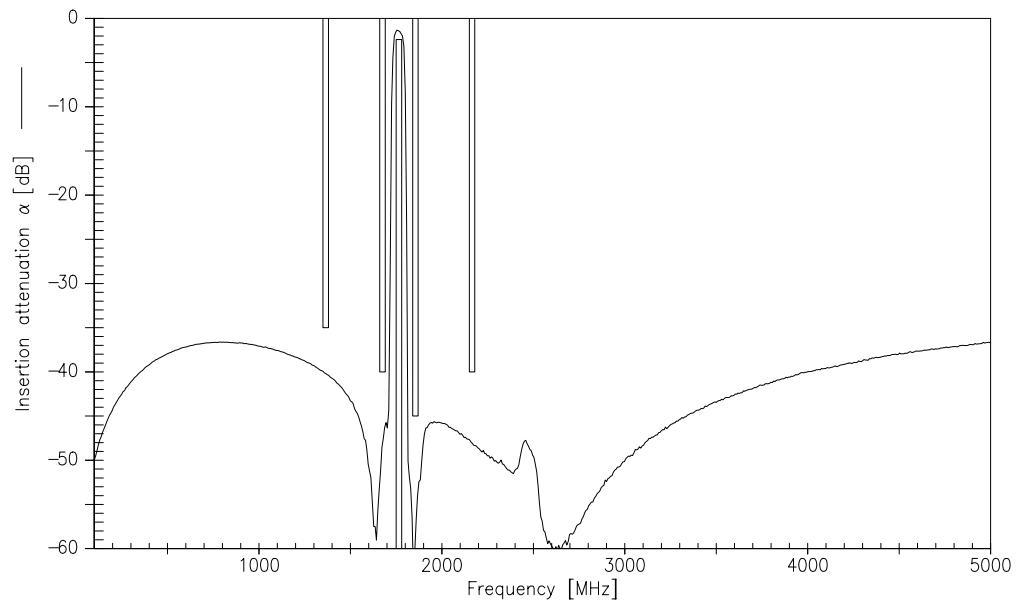
			min.	typ.	max.	
<b>Center frequency</b>	$f_c$		—	1765,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$					
		1750,0 ... 1780,0 MHz	—	1,8	2,4	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$					
		1750,0 ... 1780,0 MHz	—	0,6	1,2	dB
<b>VSWR</b>						
		1750,0 ... 1780,0 MHz	—	1,5	1,9	
<b>Attenuation</b>	$\alpha$					
		1350,0 ... 1380,0 MHz	35,0	40,0	—	dB
		1660,0 ... 1690,0 MHz	40,0	46,0	—	dB
		1840,0 ... 1870,0 MHz	45,0	52,0	—	dB
		2150,0 ... 2180,0 MHz	40,0	47,0	—	dB



Transfer function (measurement)

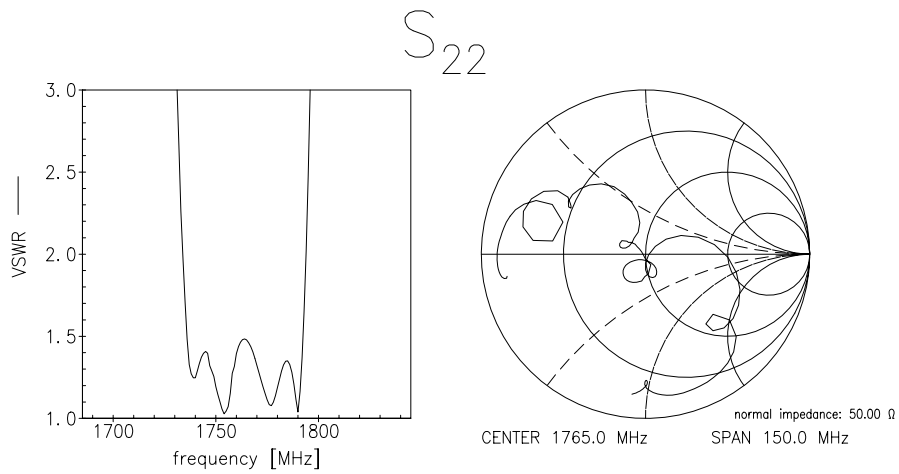
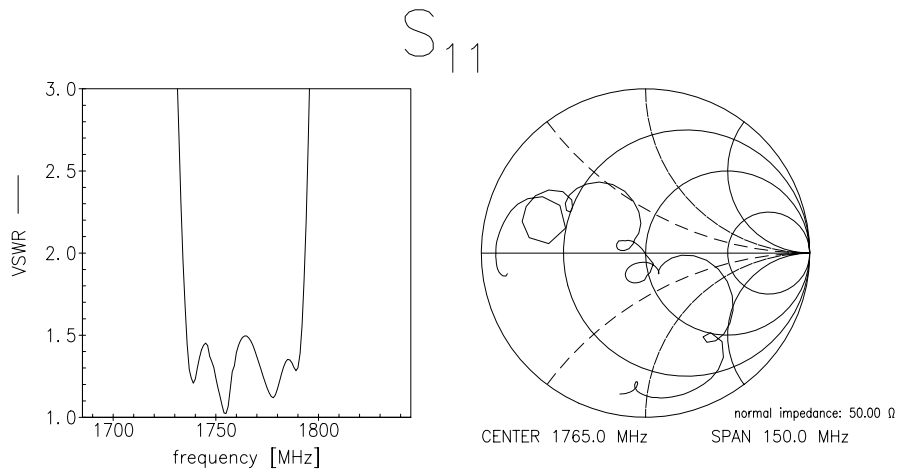


Transfer function (wideband measurement)





Matching (measurement)





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