



# SAW Components

Data Sheet B7806





**SAW Components**

**B7806**

**Low-Loss Filter for Mobile Communication**

**1765,00 MHz**

**Data Sheet**



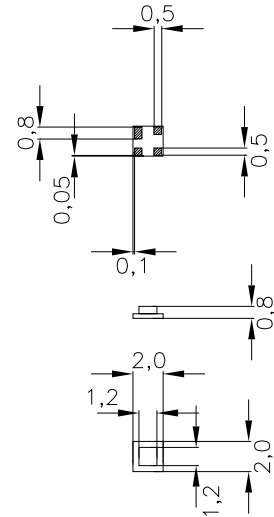
Chip sized SAW package

**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**

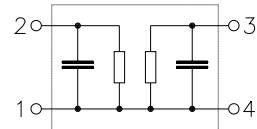
- Ni, gold-plated



Dimensions in mm, approx. weight 0,01 g

**Pin configuration**

- 2 Input
- 1 Input - ground
- 3 Output
- 4 Output - ground



Type	Ordering code	Marking and Package according to	Packing according to
B7806	B39182-B7806-A510	C61157-A7-A63	F61074-V8099-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	



**Characteristics**

Operating temperature range:  $T = +25 \pm 2^\circ\text{C}$   
 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>	$\alpha_{\max}$		—	2,7	3,0	dB
		1750,0 ... 1780,0 MHz				
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$		—	0,8	1,0	dB
		1750,0 ... 1780,0 MHz				
<b>VSWR</b>			—	1,9	2,0	
		1750,0 ... 1780,0 MHz				
<b>Attenuation</b>	$\alpha$					
		1350,0 ... 1380,0 MHz	26,0	28,0	—	dB
		1660,0 ... 1690,0 MHz	22,0	23,0	—	dB
		1840,0 ... 1870,0 MHz (Rx)	30,0	34,0	—	dB
		2150,0 ... 2180,0 MHz	27,0	29,0	—	dB



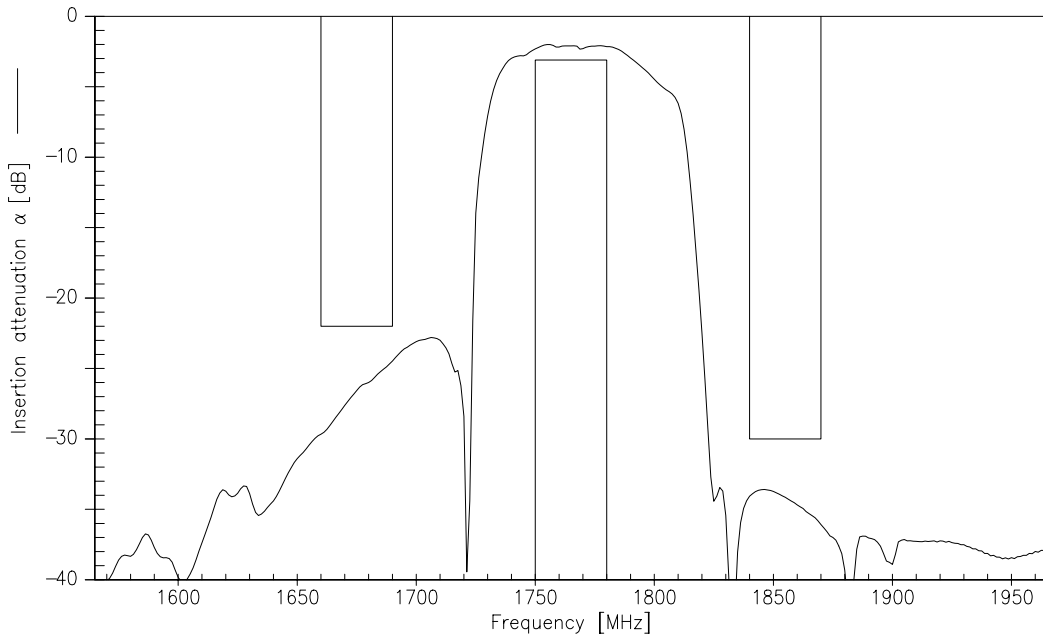
**Characteristics**

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

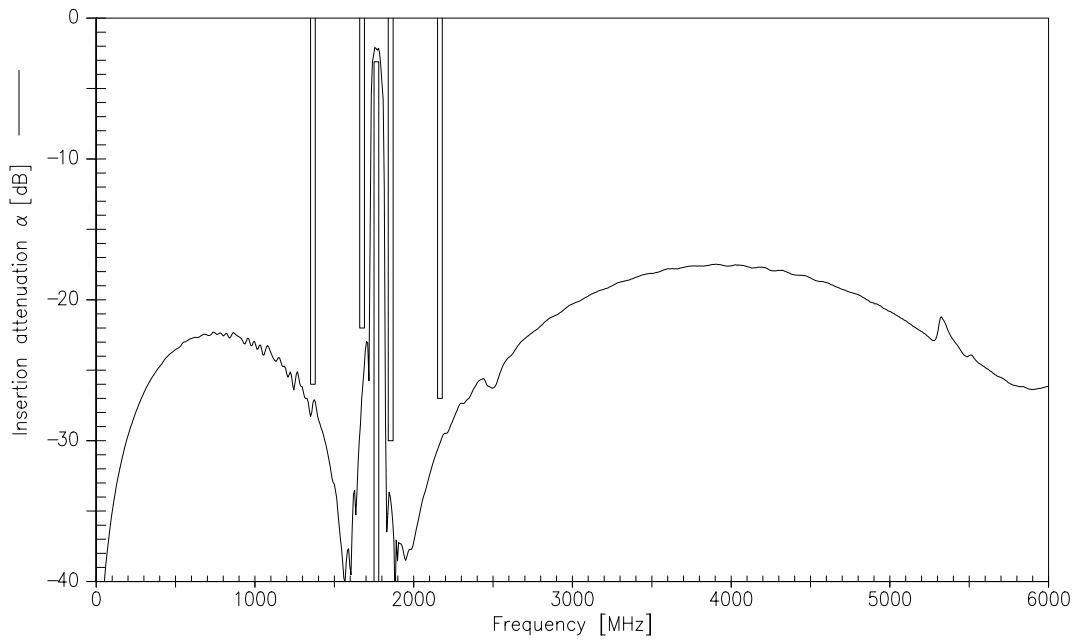
			min.	typ.	max.	
<b>Center frequency</b>	$f_c$		—	1765,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	1750,0 ... 1780,0 MHz	—	2,7	3,1	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	1750,0 ... 1780,0 MHz	—	0,8	1,1	dB
<b>VSWR</b>		1750,0 ... 1780,0 MHz	—	1,9	2,1	
<b>Attenuation</b>	$\alpha$	1350,0 ... 1380,0 MHz	26,0	28,0	—	dB
		1660,0 ... 1690,0 MHz	22,0	23,0	—	dB
		1840,0 ... 1870,0 MHz (Rx)	30,0	34,0	—	dB
		2150,0 ... 2180,0 MHz	27,0	29,0	—	dB



Transfer function (25° C spec)



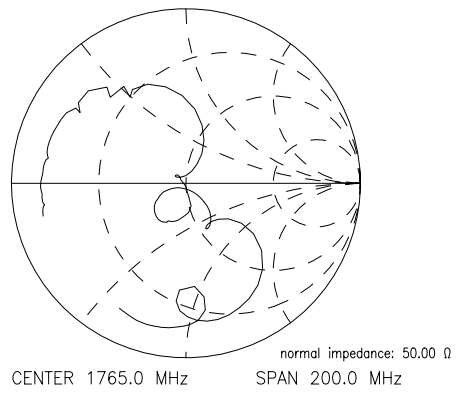
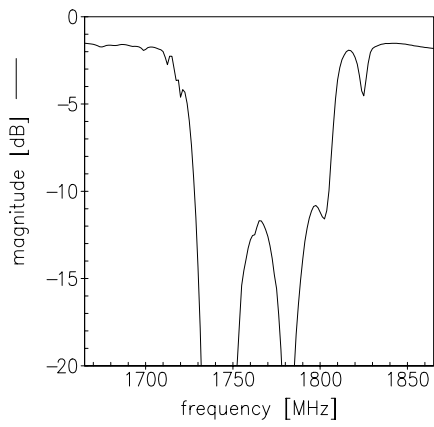
Transfer function (wideband)



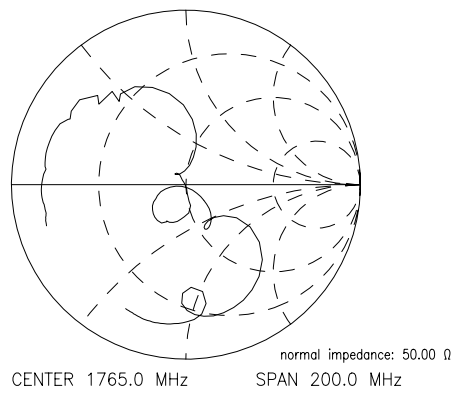
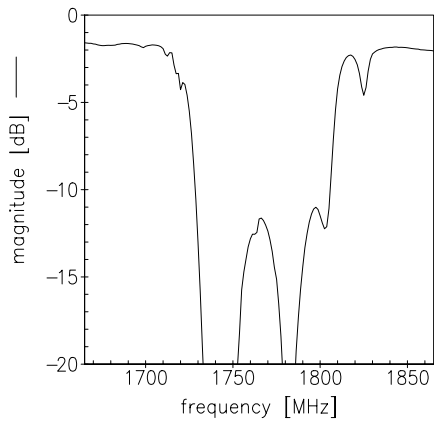


Reflection functions

$S_{11}$



$S_{22}$





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