



SAW Components

Data Sheet B7806

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, sans-serif font, appearing to be part of a larger, curved structure that resembles a globe or a stylized wave. The background is dark and textured.



SAW Components

B7806

Low-Loss Filter for Mobile Communication

1765,00 MHz

Data Sheet



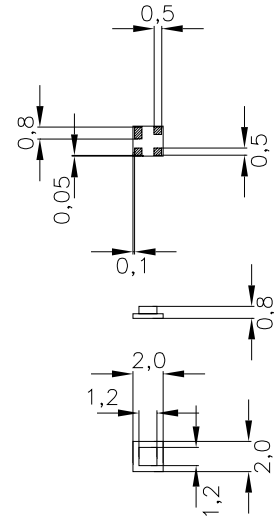
Chip sized SAW package

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

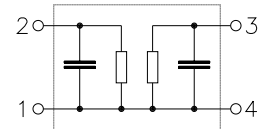
- Ni, gold-plated



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.	
Center frequency	f_c		—	1765,0	—	MHz
Maximum insertion attenuation	α_{\max}		—	2,7	3,0	dB
		1750,0 ... 1780,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$		—	0,8	1,0	dB
		1750,0 ... 1780,0 MHz				
VSWR			—	1,9	2,0	
		1750,0 ... 1780,0 MHz				
Attenuation	α					
		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



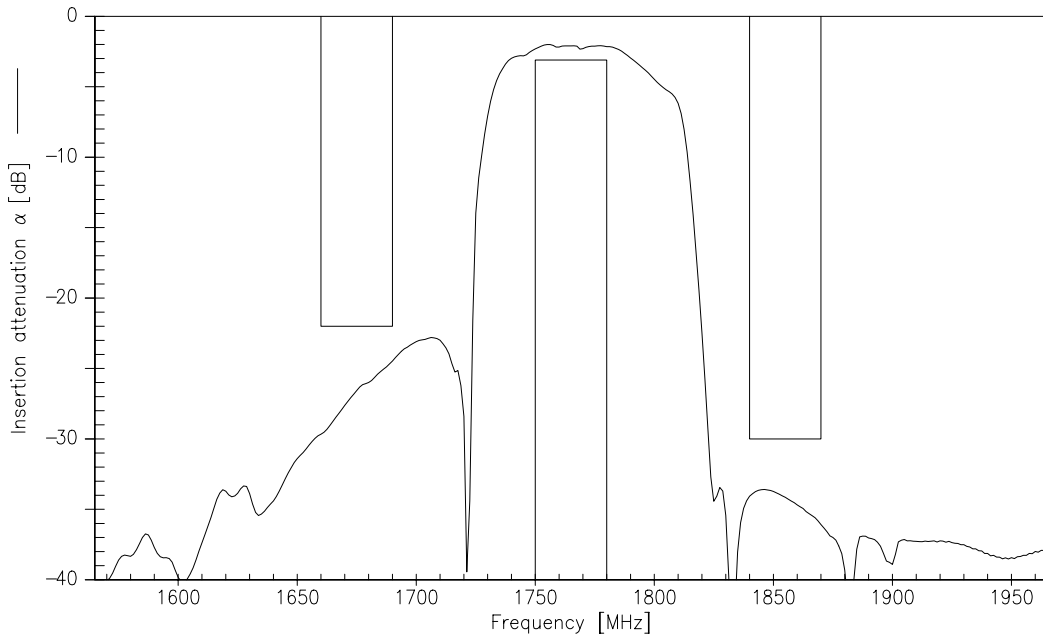
Characteristics

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

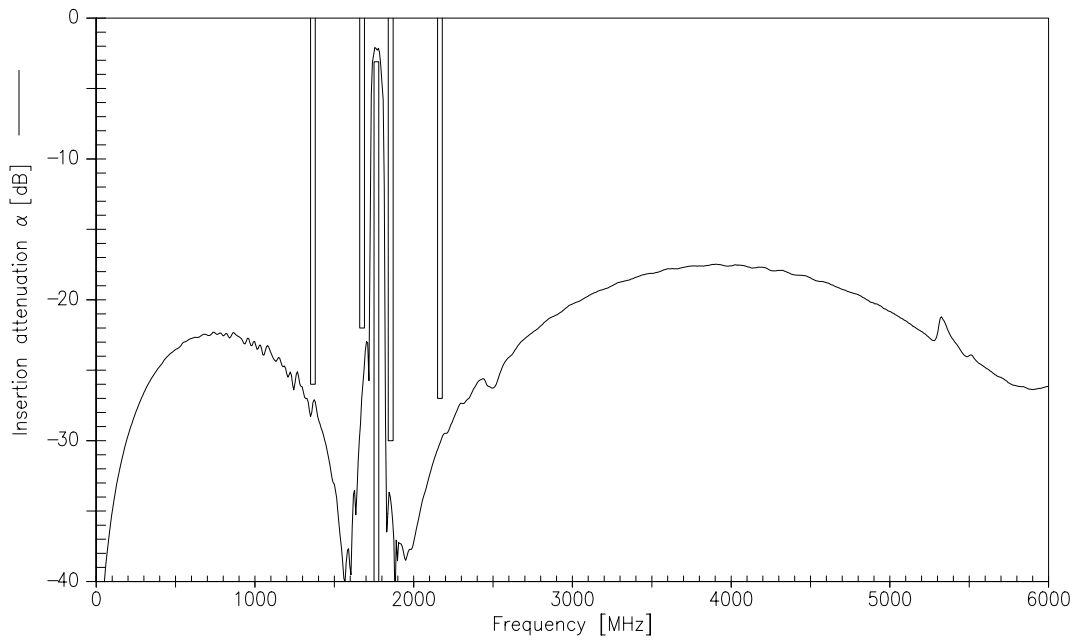
			min.	typ.	max.	
Center frequency	f_c		—	1765,0	—	MHz
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VSWR			—	1,9	2,1	
		1750,0 ... 1780,0 MHz				
Attenuation	α					
		1350,0 ... 1380,0 MHz	26,0	28,0	—	dB
		1660,0 ... 1690,0 MHz	22,0	23,0	—	dB
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		2150,0 ... 2180,0 MHz	27,0	29,0	—	dB



Transfer function (25° C spec)



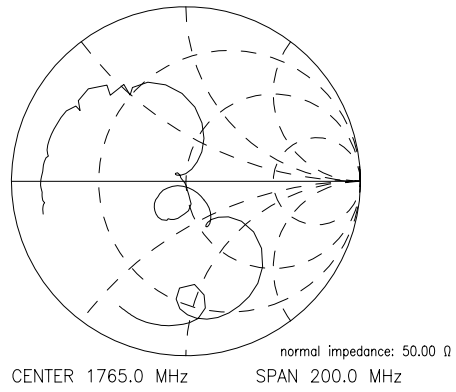
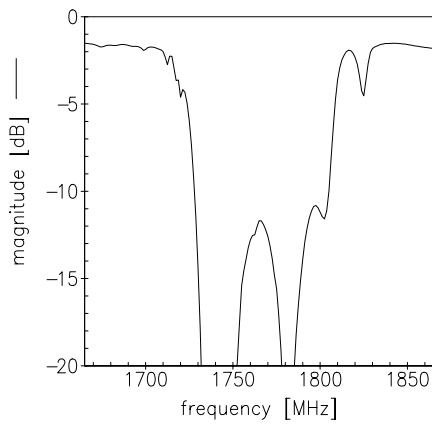
Transfer function (wideband)



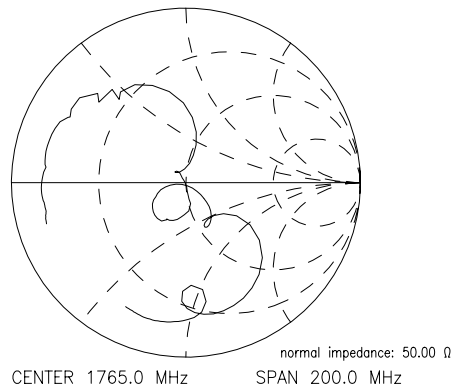
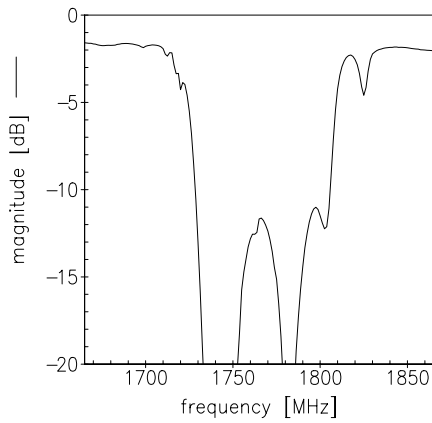


Reflection functions

S_{11}



S_{22}





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