



SAW Components

Data Sheet B7806

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are tilted and appear to be floating or emerging from a dark, textured background that resembles a globe or a complex circuit board. The overall effect is a sense of depth and modernity.



SAW Components

B7806

Low-Loss Filter for Mobile Communication

1765,00 MHz

Data Sheet



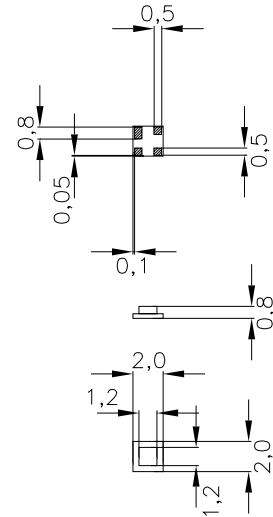
Chip sized SAW package

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

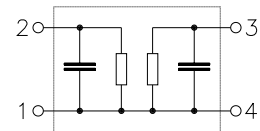
- Ni, gold-plated



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	$^{\circ}\text{C}$	CDMA signal
Storage temperature range	T_{stg}	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	10	dBm	



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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}					
	1750,0 ... 1780,0	MHz	—	2,7	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1750,0 ... 1780,0	MHz	—	0,8	1,0	dB
VSWR						
	1750,0 ... 1780,0	MHz	—	1,9	2,0	
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



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



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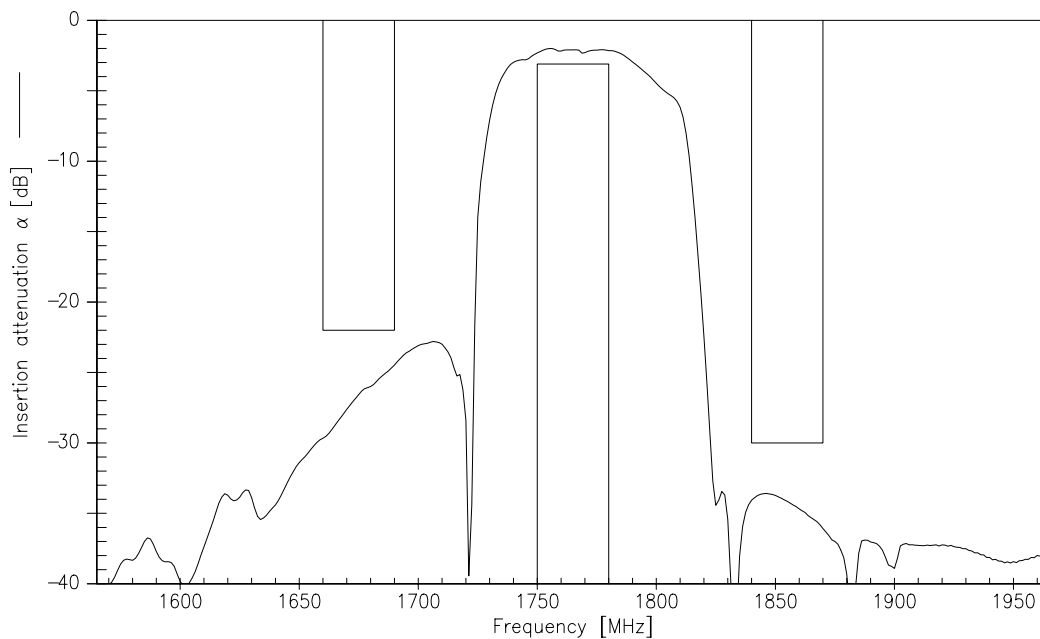
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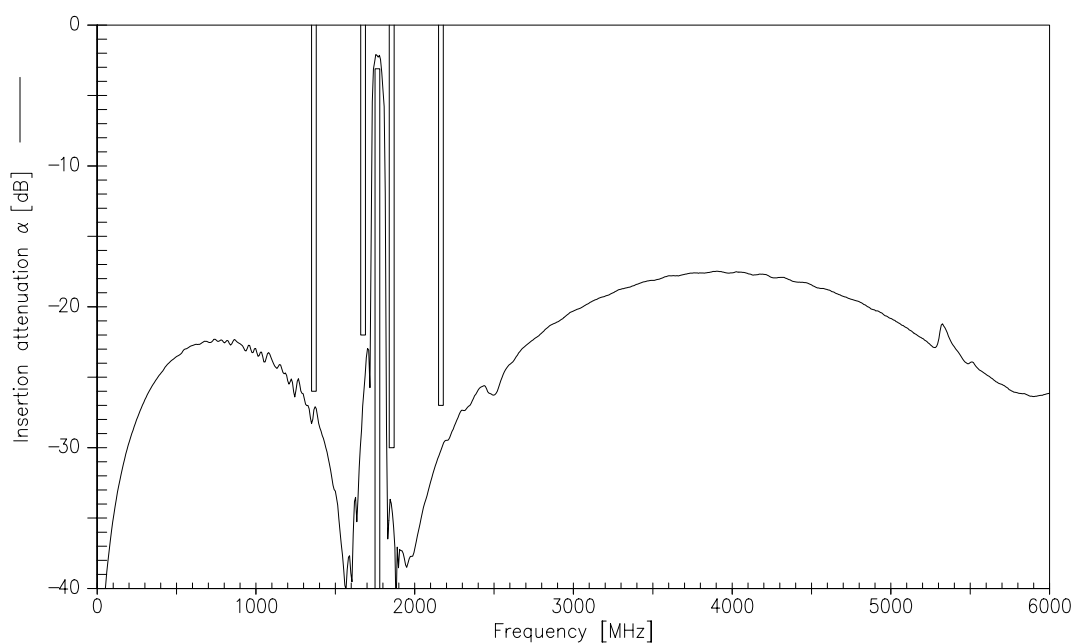
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Transfer function (25°C spec)



Transfer function (wideband)





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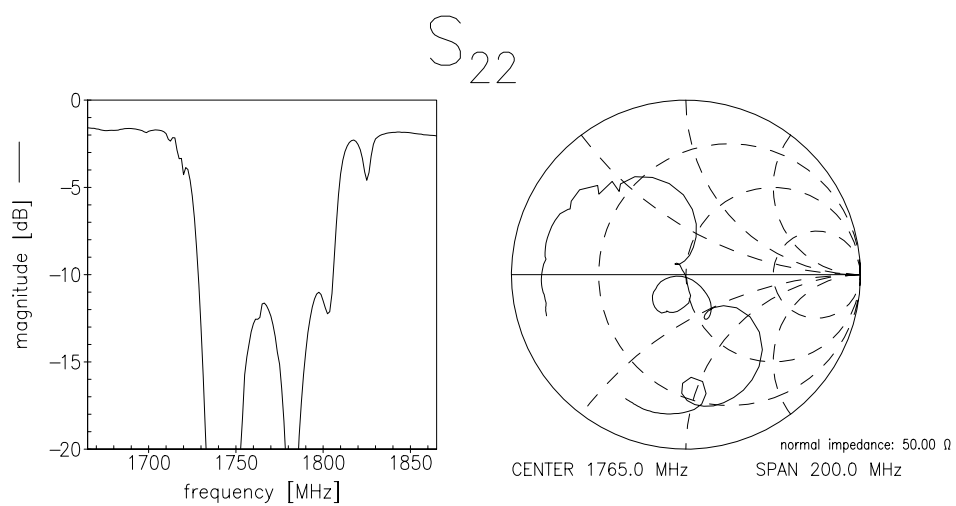
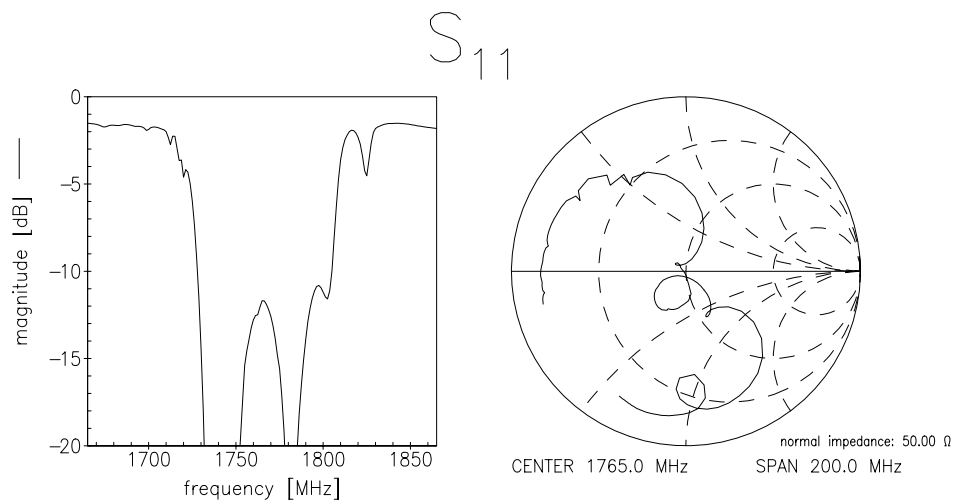
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Reflection functions





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Published by EPCOS AG
Surface Acoustic Wave Components Division, OFW E MF
P.O. Box 80 17 09, D-81617 München

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