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SAW Components

Data Sheet B7807

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 complex circuit board layout. The background is dark and textured.



SAW Components	B7807
Low-Loss Filter for Mobile Communication	1855,00 MHz

Data Sheet



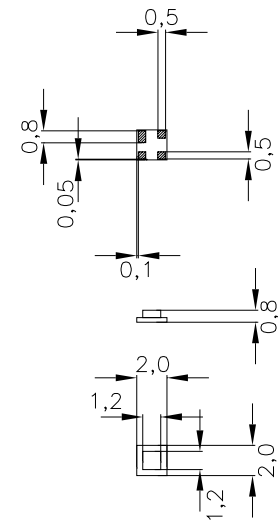
Chip sized SAW package

Features

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

Terminals

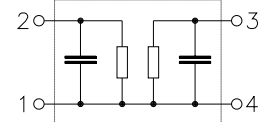
- Ni, gold-plated



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
B7807	B39192-B7807-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	



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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			—	1855,0	—	MHz
Maximum insertion attenuation	α_{\max}			—	2,7	3,1	dB
		1840,0 ... 1870,0	MHz				
Amplitude ripple (p-p)	$\Delta\alpha$			—	0,8	1,1	dB
		1840,0 ... 1870,0	MHz				
VSWR				—	2,1	2,4	
		1840,0 ... 1870,0	MHz				
Attenuation	α						
		1440,0 ... 1470,0	MHz	25,0	27,0	—	dB
		1750,0 ... 1780,0	MHz (Tx)	22,0	24,0	—	dB
		1930,0 ... 1960,0	MHz	27,0	34,0	—	dB
		2240,0 ... 2270,0	MHz	30,0	38,0	—	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			—	1855,0	—	MHz
Maximum insertion attenuation	α_{\max}						
		1840,0 ... 1870,0	MHz	—	2,7	3,1	dB
Amplitude ripple (p-p)	$\Delta\alpha$						
		1840,0 ... 1870,0	MHz	—	0,8	1,1	dB
VSWR							
		1840,0 ... 1870,0	MHz	—	2,1	2,4	
Attenuation	α						
		1440,0 ... 1470,0	MHz	25,0	27,0	—	dB
		1750,0 ... 1780,0	MHz (Tx)	22,0	24,0	—	dB
		1930,0 ... 1960,0	MHz	27,0	34,0	—	dB
		2240,0 ... 2270,0	MHz	30,0	38,0	—	dB

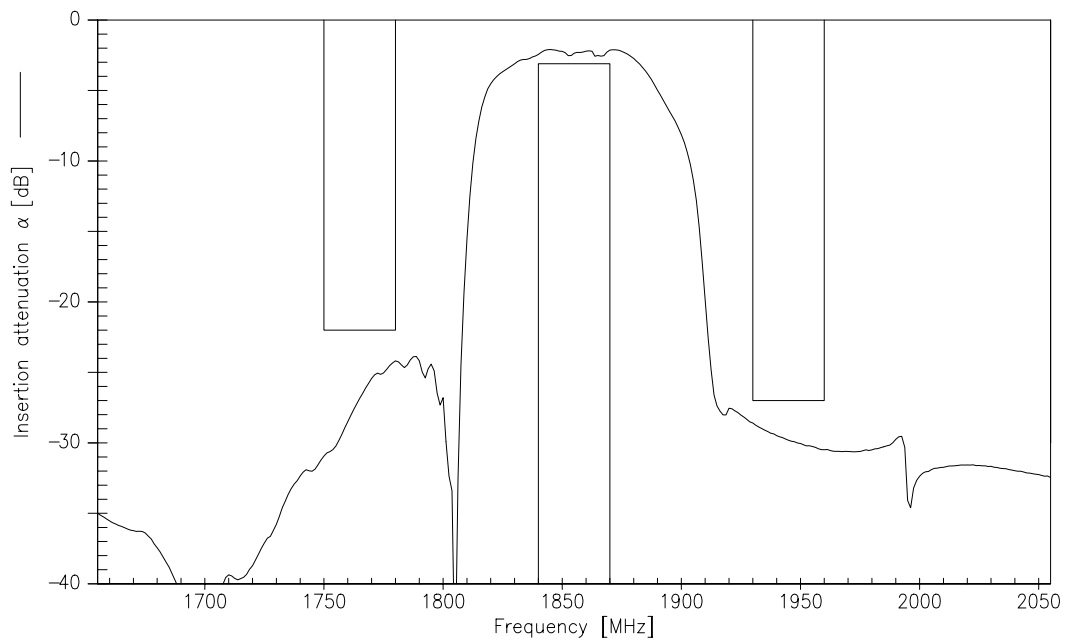


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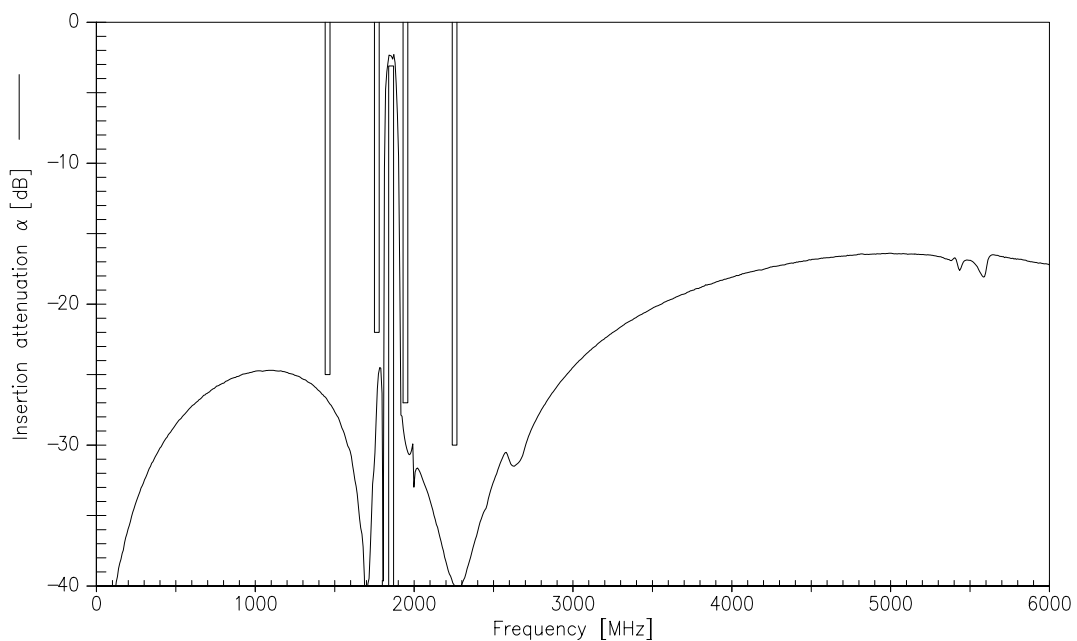
Data Sheet



Transfer function (25°C spec)



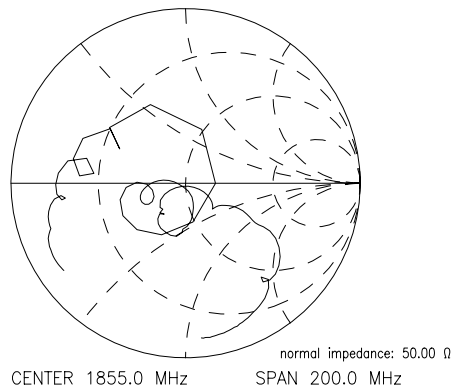
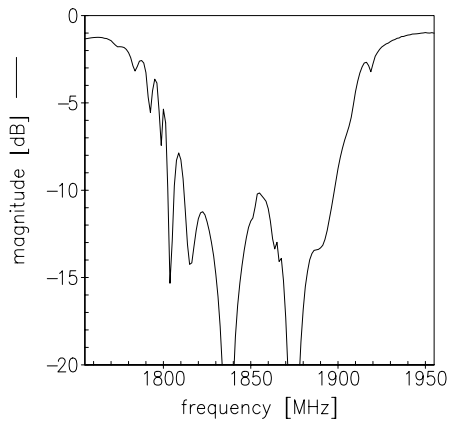
Transfer function (wideband)



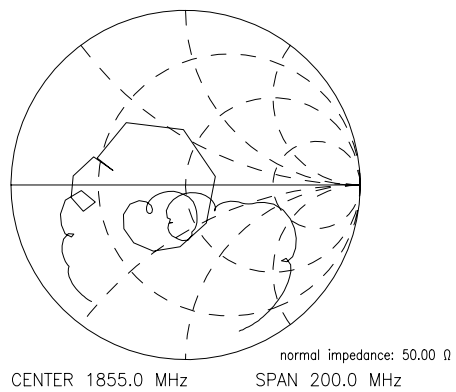
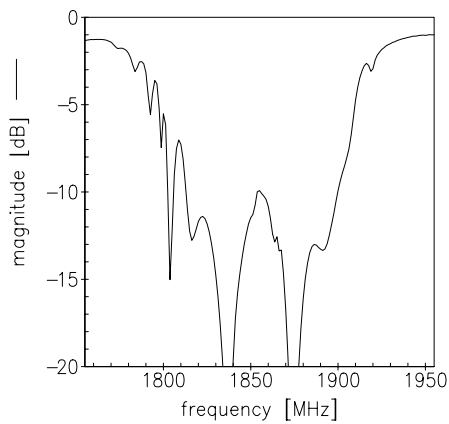


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Reflection functions	

S_{11}



S_{22}





SAW Components	B7807
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Data Sheet	SMD

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