



SAW Components

Data Sheet B7807

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are slightly 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

B7807

Low-Loss Filter for Mobile Communication

1855,00 MHz

Data Sheet



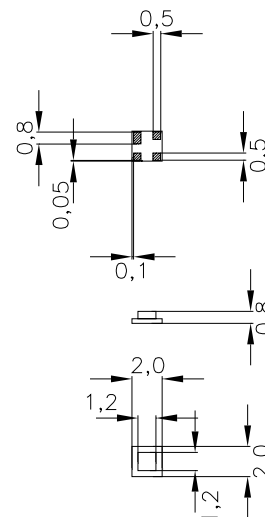
Chip sized SAW package

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

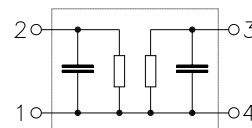
- Ni, gold-plated



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	$^{\circ}\text{C}$	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		—	1855,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	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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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	$\alpha_{\max}$					
	1840,0 ... 1870,0 MHz		—	2,7	3,1	dB
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	1930,0 ... 1960,0 MHz		27,0	34,0	—	dB
	2240,0 ... 2270,0 MHz		30,0	38,0	—	dB



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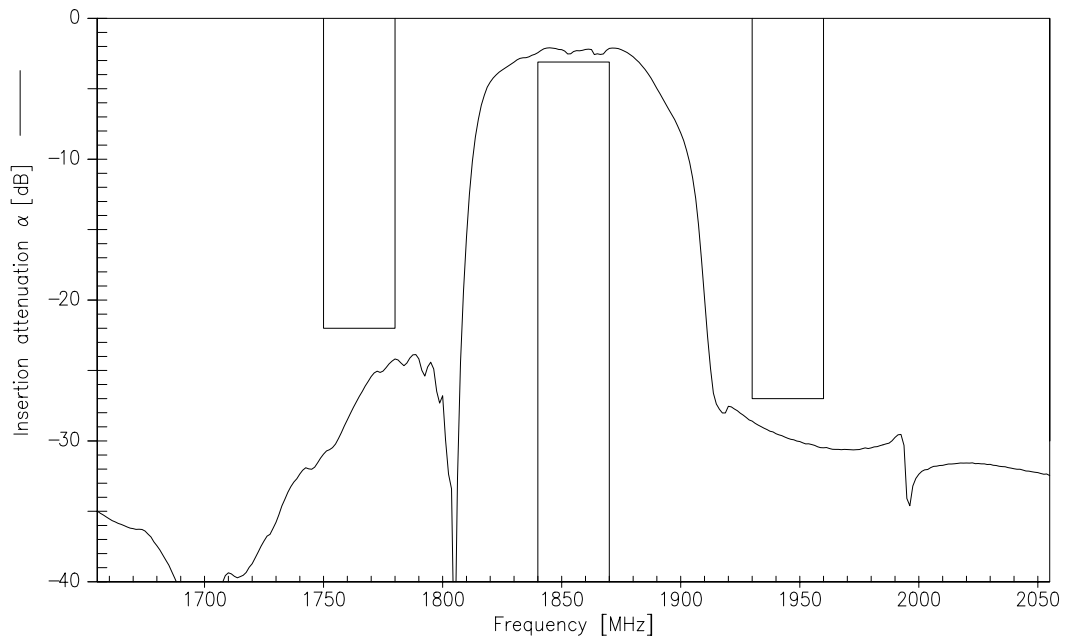
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1855,00 MHz

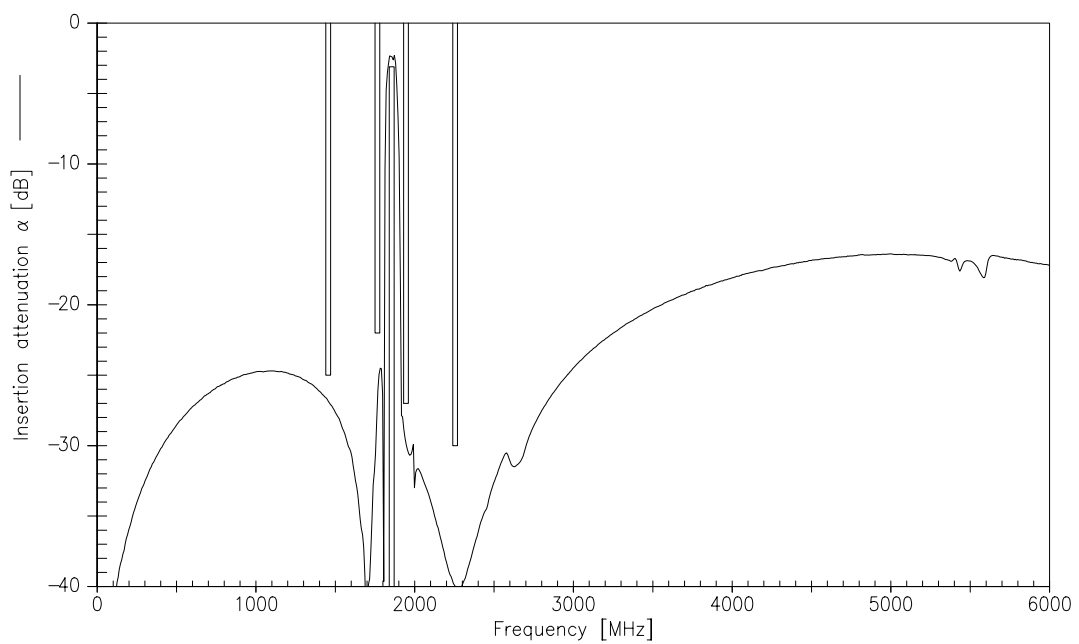
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Transfer function (25°C spec)



Transfer function (wideband)





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Low-Loss Filter for Mobile Communication

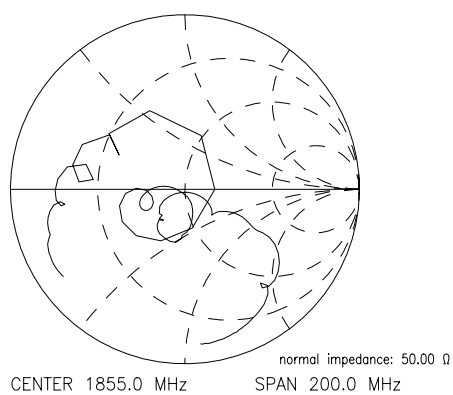
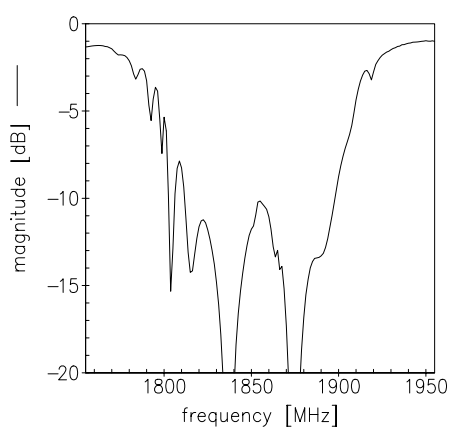
1855,00 MHz

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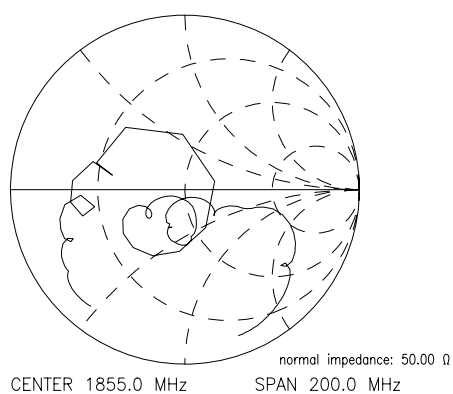
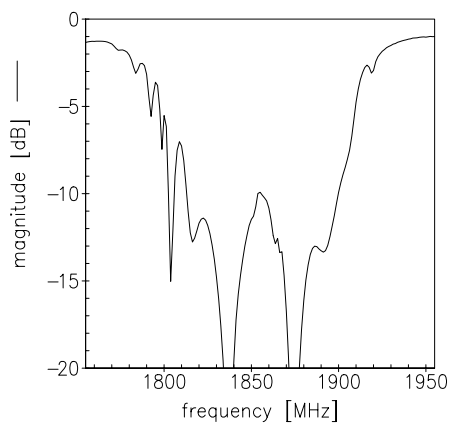


Reflection functions

S_{11}



S_{22}





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