



SAW Components

Data Sheet B7802





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Low-Loss Filter for Mobile Communication

1880,00 MHz

Data Sheet



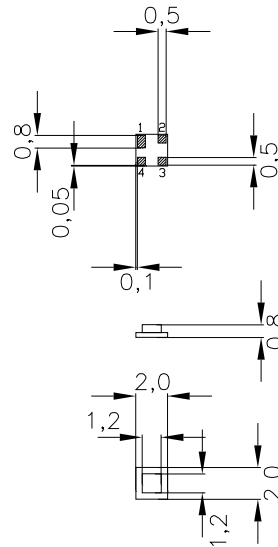
Chip sized SAW package DCS4A

Features

- Low-loss RF filter for mobile telephone PCS system, transmit path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ω
- Package for **Surface Mounted Technology (SMT)**

Terminals

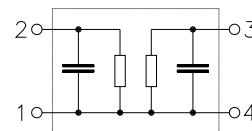
- Ni, gold-plated



Dimensions in mm, approx. weight 0,01g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B7802	B39192-B7802-A510	C61157-A7-A63	F61074-V8154-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 / + 85	°C	source and impedance 50 Ω peak power of GSM signal, duty cycle 1:3 CDMA signal
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	10	dBm	
		8	dBm	



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Characteristics

Operating temperature range: $T = +25 \pm 2 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1880,00	—	MHz
Maximum insertion attenuation	α_{max}				
1850,0 ... 1910,0	MHz	—	3,0	3,6	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1850,0 ... 1910,0	MHz	—	1,5	2,1	dB
IVSWR					
1850,0 ... 1910,0	MHz	—	2,0	2,2	
Attenuation	α				
10,0 ... 950,0	MHz	15,0	17,0	—	dB
950,0 ... 1050,0	MHz	14,0	15,0	—	dB
1050,0 ... 1580,0	MHz	16,0	18,0	—	dB
1580,0 ... 1720,0	MHz	25,0	28,0	—	dB
1720,0 ... 1780,0	MHz	21,0	23,0	—	dB
1780,0 ... 1800,0	MHz	18,0	20,5	—	dB
1800,0 ... 1830,0	MHz	10,0	20,0	—	dB
1930,0 ... 1990,0	MHz	15,0	24,0	—	dB
1990,0 ... 2400,0	MHz	25,0	28,0	—	dB
2400,0 ... 2800,0	MHz	20,0	24,0	—	dB
2800,0 ... 3500,0	MHz	15,0	18,0	—	dB
3500,0 ... 6000,0	MHz	13,0	15,0	—	dB



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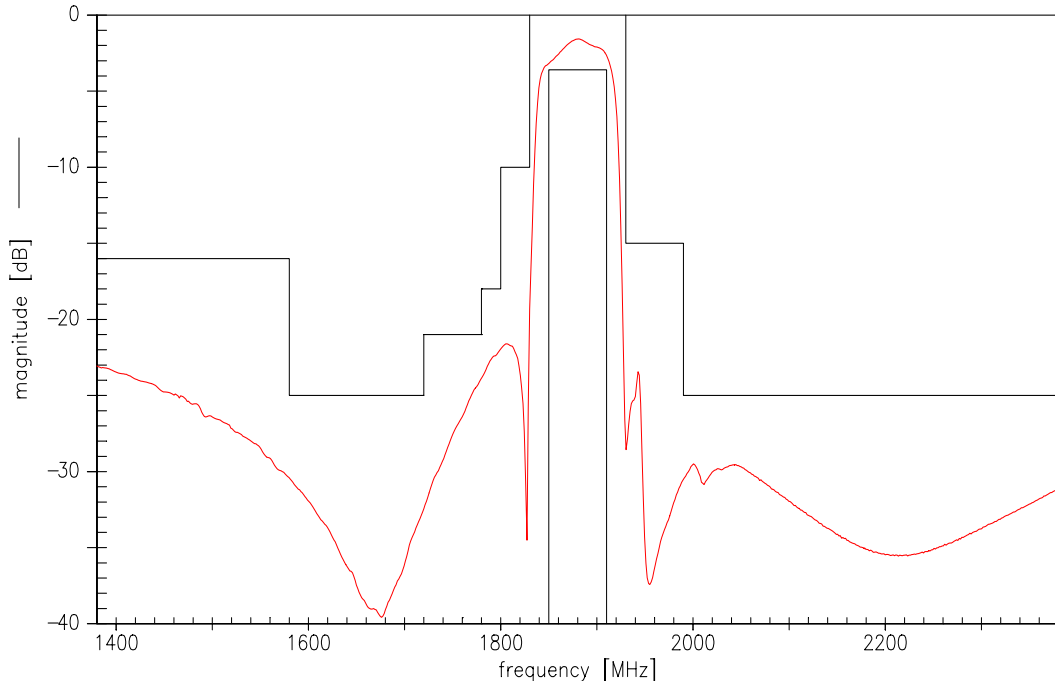
Characteristics

Operating temperature range: $T = -30$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

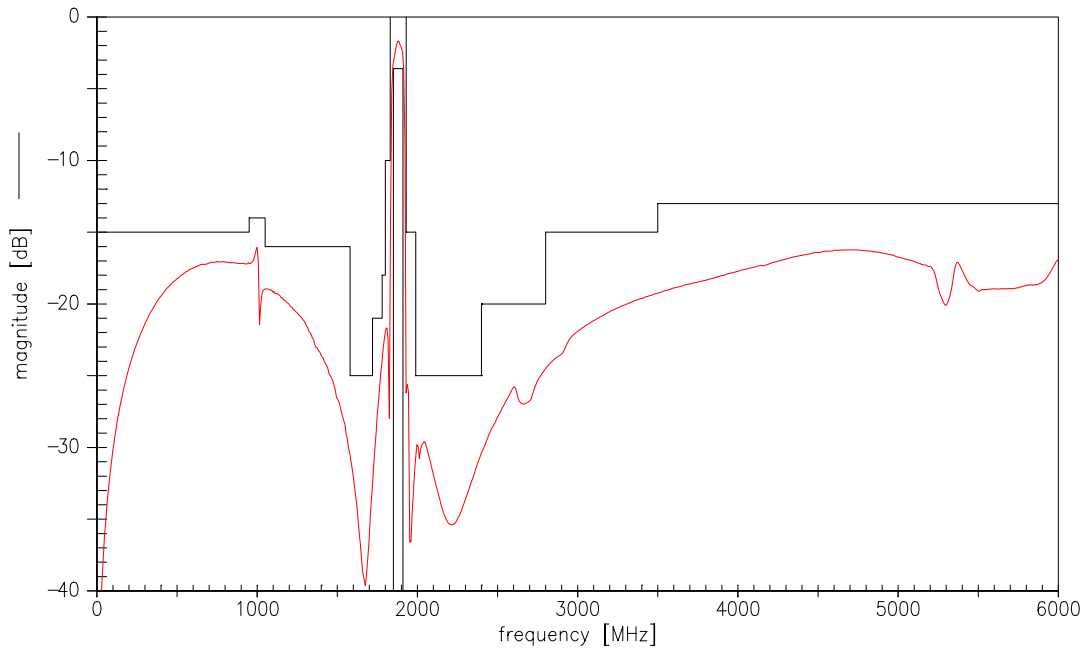
			min.	typ.	max.	
Center frequency	f_C		—	1880,00	—	MHz
Maximum insertion attenuation	α_{max}					
		1850,0 ... 1910,0 MHz	—	3,2	4,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
		1850,0 ... 1910,0 MHz	—	1,8	2,8	dB
IVSWR						
		1850,0 ... 1910,0 MHz	—	2,0	2,2	
Attenuation	α					
		10,0 ... 950,0 MHz	15,0	17,0	—	dB
		950,0 ... 1050,0 MHz	14,0	15,0	—	dB
		1050,0 ... 1580,0 MHz	16,0	18,0	—	dB
		1580,0 ... 1720,0 MHz	25,0	28,0	—	dB
		1720,0 ... 1780,0 MHz	21,0	23,0	—	dB
		1780,0 ... 1800,0 MHz	18,0	20,5	—	dB
		1800,0 ... 1830,0 MHz	6,0	16,0	—	dB
		1930,0 ... 1990,0 MHz	10,0	19,0	—	dB
		1990,0 ... 2400,0 MHz	25,0	28,0	—	dB
		2400,0 ... 2800,0 MHz	20,0	24,0	—	dB
		2800,0 ... 3500,0 MHz	15,0	18,0	—	dB
		3500,0 ... 6000,0 MHz	13,0	15,0	—	dB



Transfer function (narrowband with 25° C spec)

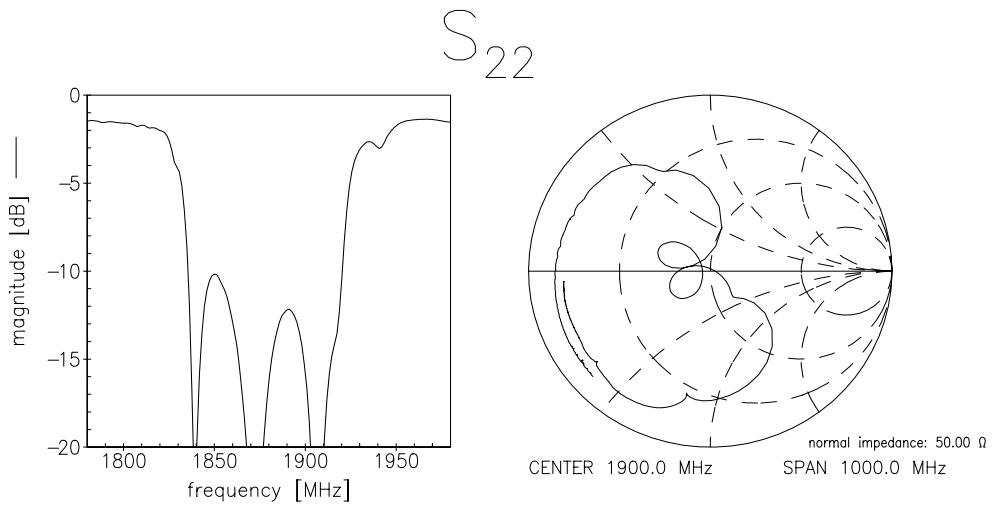
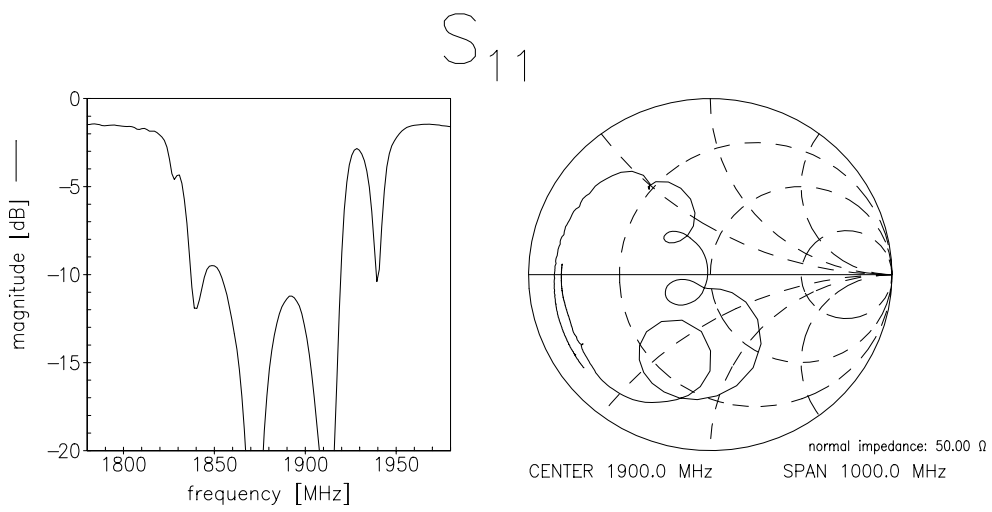


Transfer function (wideband)





Matching (measurement)





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