



SAW Components

Data Sheet B7802





SAW Components

B7802

Low-Loss Filter for Mobile Communication

1880,00 MHz

Data Sheet



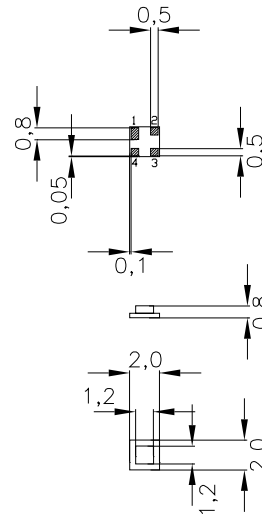
Chip sized SAW package DCS4A

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

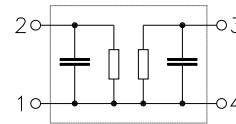
- Ni, gold-plated



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	



SAW Components

B7802

Low-Loss Filter for Mobile Communication

1880,00 MHz

Data Sheet



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



Data Sheet



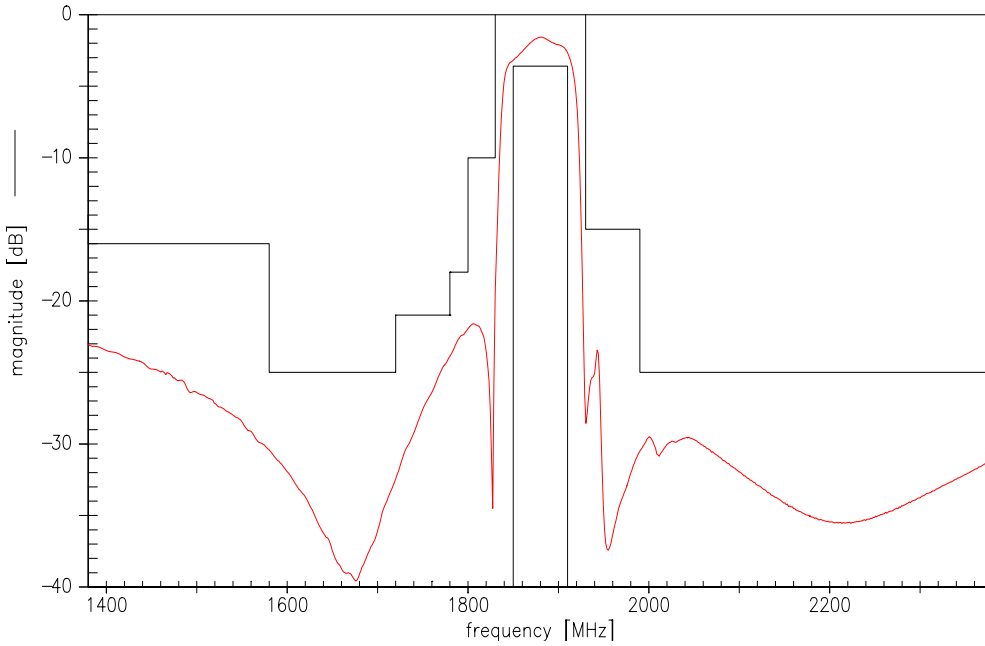
Characteristics

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

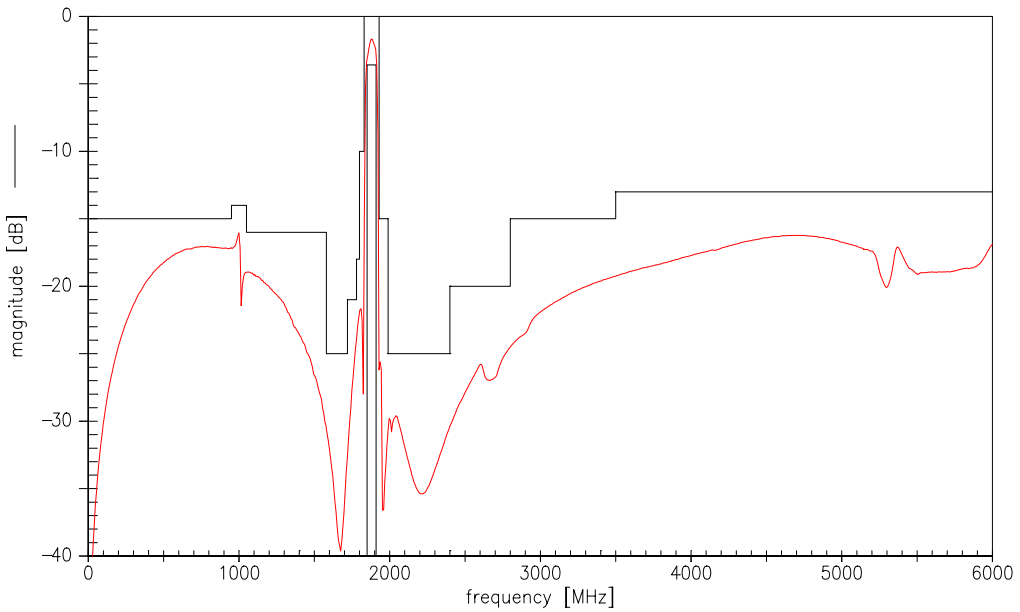
			min.	typ.	max.	
Center frequency	f_C		—	1880,00	—	MHz
Maximum insertion attenuation	α_{max}	1850,0 ... 1910,0 MHz	—	3,2	4,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$	1850,0 ... 1910,0 MHz	—	1,8	2,8	dB
IVSWR		1850,0 ... 1910,0 MHz	—	2,0	2,2	
Attenuation	α					
		10,0 ... 950,0 MHz	15,0	17,0	—	dB
		950,0 ... 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)

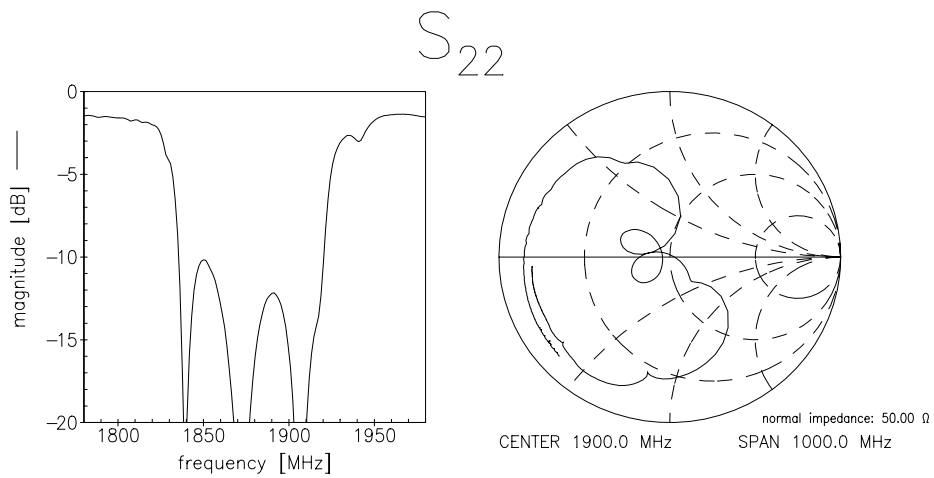
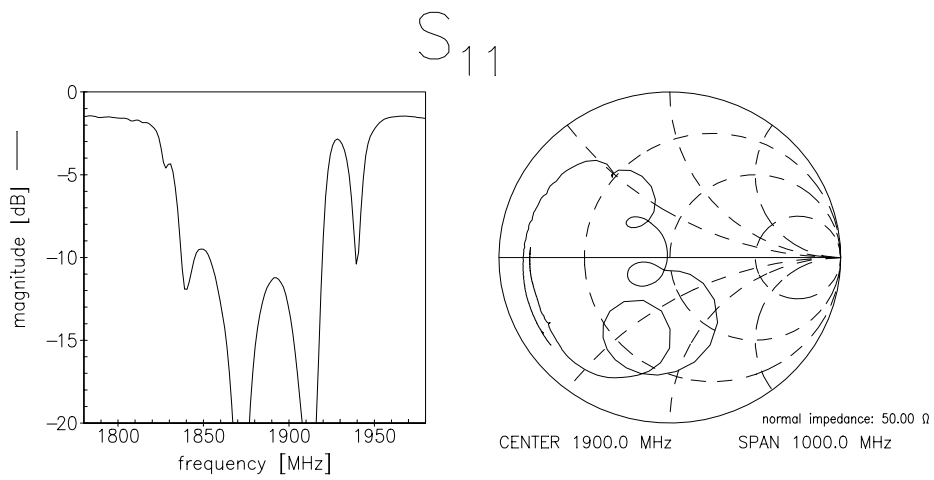


Transfer function (wideband)





Matching (measurement)





SAW Components

B7802

Low-Loss Filter for Mobile Communication

1880,00 MHz

Data Sheet



Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC WT

P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.