



RF Filters for Cellular Phones

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39192B7759C810	B39192B9014E910	2006-12-01	2007-02-28	2007-05-31

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SAW Components

Data Sheet B7759





SAW Components

B7759

Low-Loss Filter for Mobile Communication

1880,0 MHz

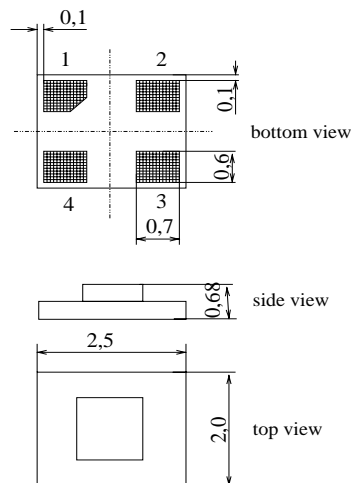
Data Sheet



Chip Sized SAW Package DCS4D

Features

- Low-loss RF filter for mobile telephone PCS systems, transmit path
- High selectivity
- Usable passband 60 MHz
- Unbalanced to unbalanced operation
- No external matching required
- Package for **Surface Mounted Technology (SMT)**



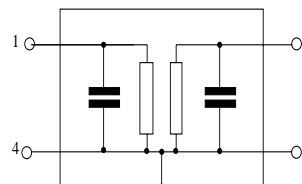
Terminals

- Gold-plated Ni

Dimensions in mm, approx. weight 0,012g

Pin configuration

- 1 Input
- 3 Output
- 2, 4 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7759	B39192-B7759-C810	C61157-A7-A118	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 30 /+ 85	°C	Machine Model, 10 pulses source impedance 50 Ω
Storage temperature range	T_{stg}	- 40 /+ 85	°C	
ESD voltage	V_{ESD}^*	50*	V	
Input Power max.	P_{IN}	12	dBm	

* acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



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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	—	1880,0	—	MHz
Maximum insertion attenuation 1850,0 ... 1910,0MHz	α_{max}	—	2,9	3,5	dB
Amplitude ripple (p-p) 1850,0 ... 1910,0MHz	$\Delta\alpha$	—	1,3	1,9	dB
Attenuation	α				
DC ... 1720,0MHz		29	31	—	dB
1720,0 ... 1770,0MHz		29	33	—	dB
1770,0 ... 1830,0MHz		18	25	—	dB
1830,0 ... 1910,0MHz		35	42	—	dB
1910,0 ... 2032,0MHz		33	37	—	dB
2032,0 ... 2456,0MHz		35	40	—	dB
2456,0 ... 3820,0MHz		25	28	—	dB
3820,0 ... 5000,0MHz		15	21	—	dB
Input return loss 1850,0 ... 1910,0MHz		10	11	—	dB
Output return loss 1850,0 .. 1910,0MHz		10	11	—	dB



Data Sheet



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	—	1880,0	—	MHz
Maximum insertion attenuation	α_{max}				
1850,0 ... 1910,0MHz		—	3,9	4,8	dB
1850,625 ... 1909,375MHz		—	3,7	4,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1850,0 ... 1910,0MHz		—	2,4	3,0	dB
1850,625 ... 1909,375MHz		—	2,2	2,8	dB
Attenuation	α				
DC ... 1720,0MHz		29	31	—	dB
1720,0 ... 1770,0MHz		29	33	—	dB
1770,0 ... 1830,0MHz		10	15	—	dB
1930,0 ... 1990,0MHz		27	35	—	dB
1930,625 ... 1989,375MHz		30	36	—	dB
1990,0 ... 2032,0MHz		33	37	—	dB
2032,0 ... 2456,0MHz		35	40	—	dB
2456,0 ... 3820,0MHz		25	28	—	dB
3820,0 ... 5000,0MHz		15	21	—	dB
Input return loss					
1850,0 ... 1910,0MHz		9	10	—	dB
Output return loss					
1850,0 .. 1910,0MHz		9	10	—	dB



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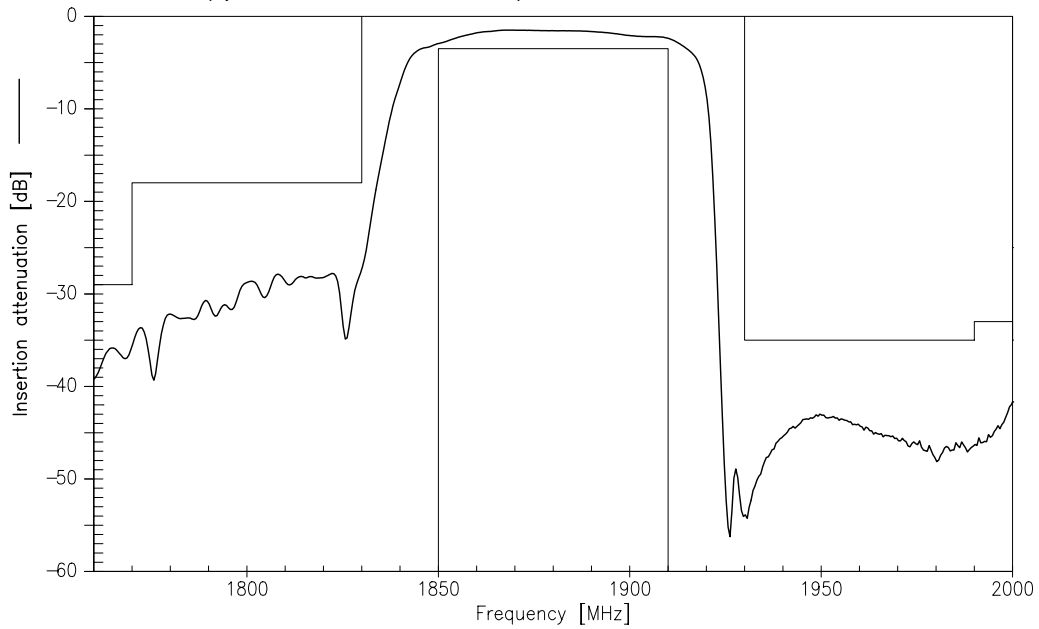
Low-Loss Filter for Mobile Communication

1880,0 MHz

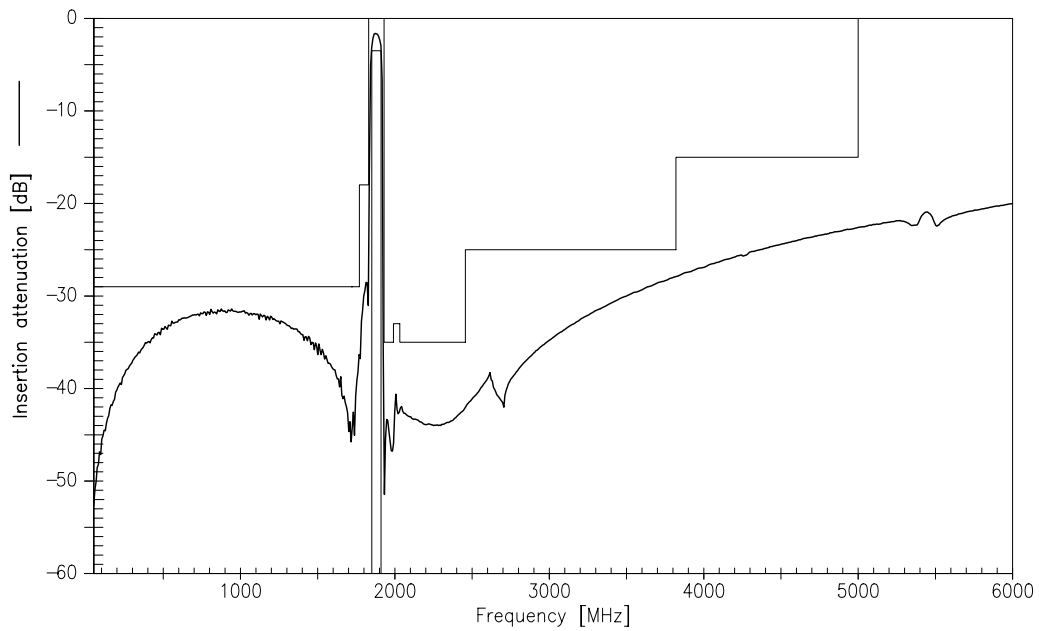
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Transfer function (specification for $T=25 \pm 2^\circ\text{C}$)



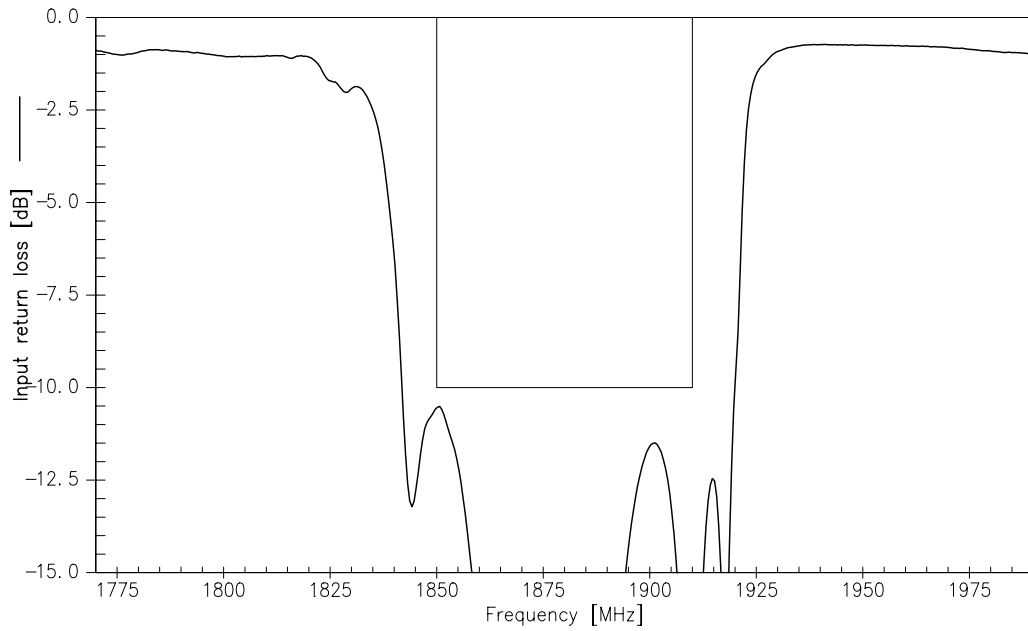
Transfer function (wideband, specification for $T=25 \pm 2^\circ\text{C}$)



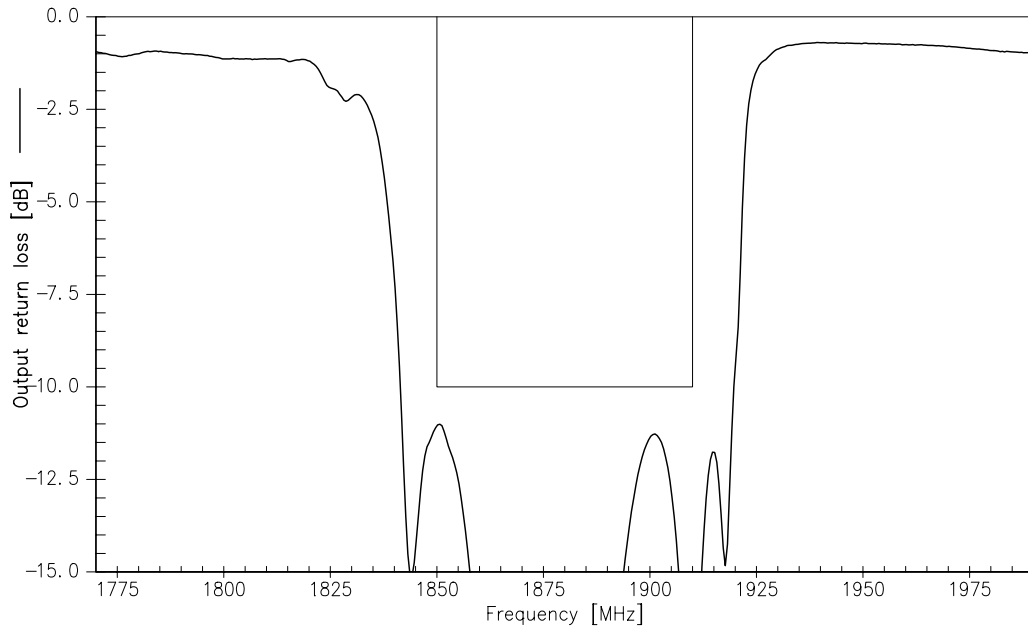


Matching (specification for $T=25 \pm 2^\circ\text{C}$)

Input



Output





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P.O. Box 80 17 09, D-81617 München

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