EPCOS

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The following products presented in this data sheet are being withdrawn.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

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

EPCOS

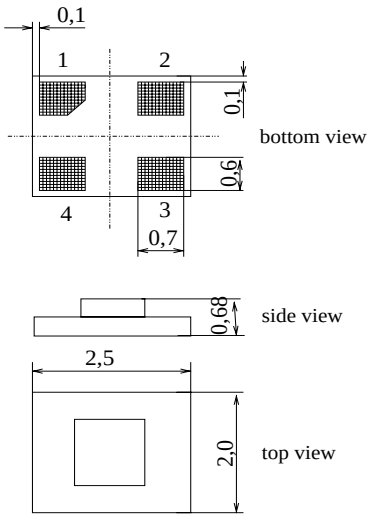
SAW Components

Data Sheet B7759

Chip **S**ized **S**AW **P**ackage **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 **S**urface **M**ounted **T**echnology (**SMT**)



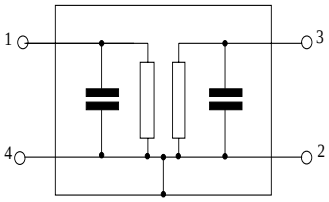
Dimensions in mm, approx. weight 0,012g

Terminals

- Gold-plated Ni

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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

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

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

Characteristics

Operating Temperature Range: T = 25 ± 2°C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

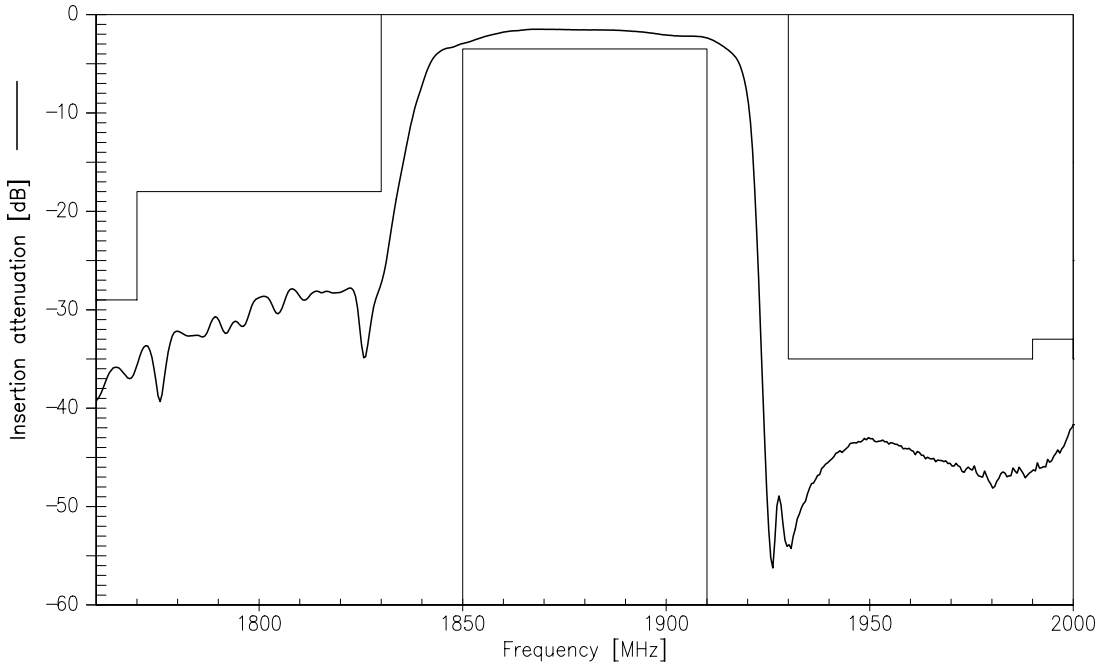
		min.	typ.	max.	
Center frequency	f_C	—	1880,0	—	MHz
Maximum insertion attenuation	α_{max}				
1850,0 ... 1910,0MHz		—	2,9	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1850,0 ... 1910,0MHz		—	1,3	1,9	dB
Attenuation	α				
DC ... 1720,0MHz		29	31	—	dB
1720,0 ... 1770,0MHz		29	33	—	dB
1770,0 ... 1830,0MHz		18	25	—	dB
1930,0 ... 1990,0MHz		35	42	—	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		10	11	—	dB
Output return loss					
1850,0 .. 1910,0MHz		10	11	—	dB

Characteristics

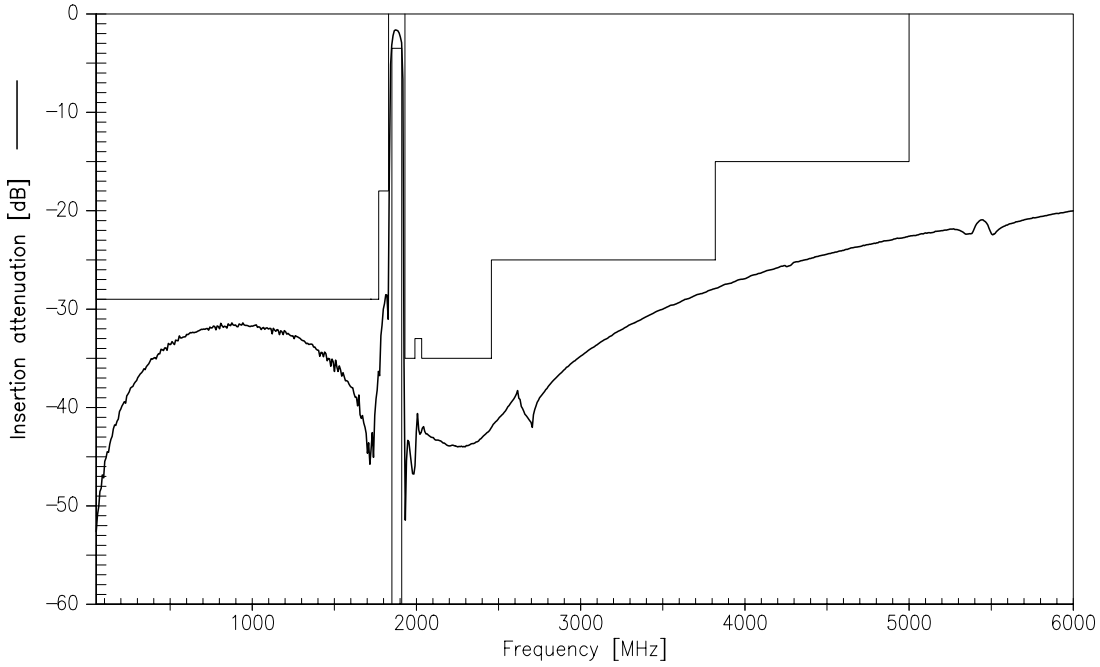
Operating Temperature Range: T = -30 to +85˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		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

Transfer function (specification for T=25 ± 2˚C)

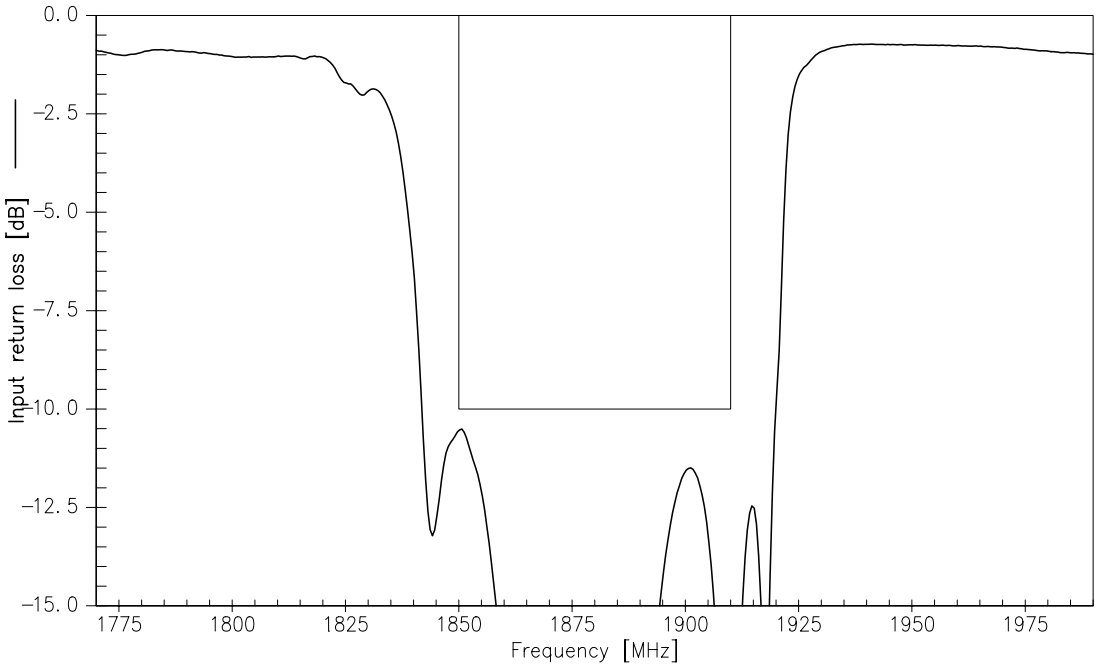


Transfer function (wideband, specification for T=25 ± 2˚C)

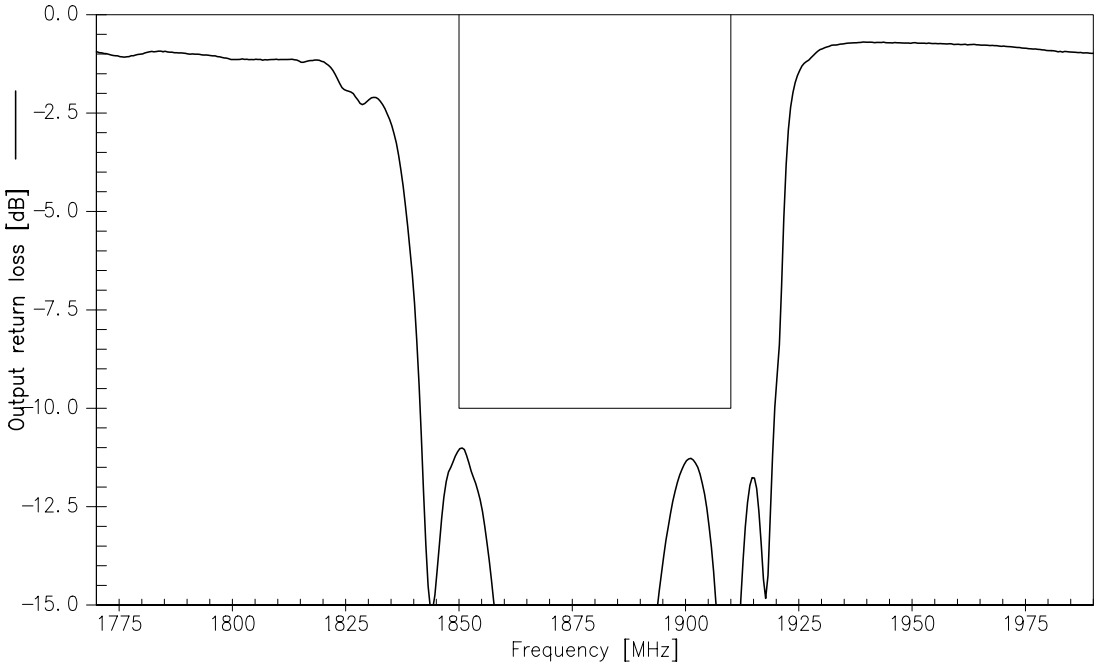


Matching (specification for T=25 ± 2˚C)

Input



Output



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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.

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