



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The following products presented in this data sheet are being withdrawn.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



SAW Components

Data Sheet B7759

Data Sheet

A large, stylized, italicized white text "EPCOS" is overlaid on a dark, textured background. The background features a faint, glowing globe and some horizontal lines, suggesting a high-tech or global reach theme.

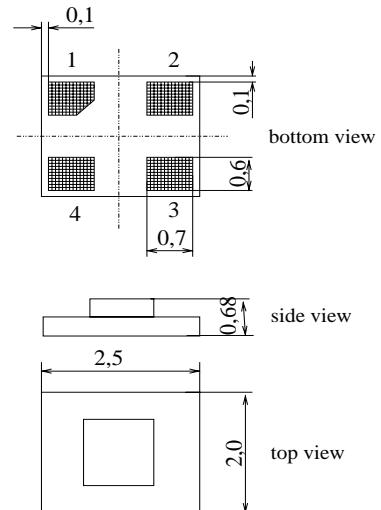
SAW Components
B7759
Low-Loss Filter for Mobile Communication
1880,0 MHz
Data Sheet

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

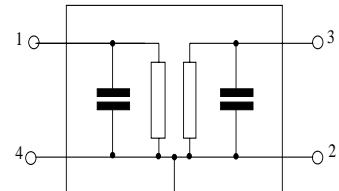
- Gold-plated Ni

Chip Sized SAW Package DCS4D


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: $T = 25 \pm 2^\circ\text{C}$

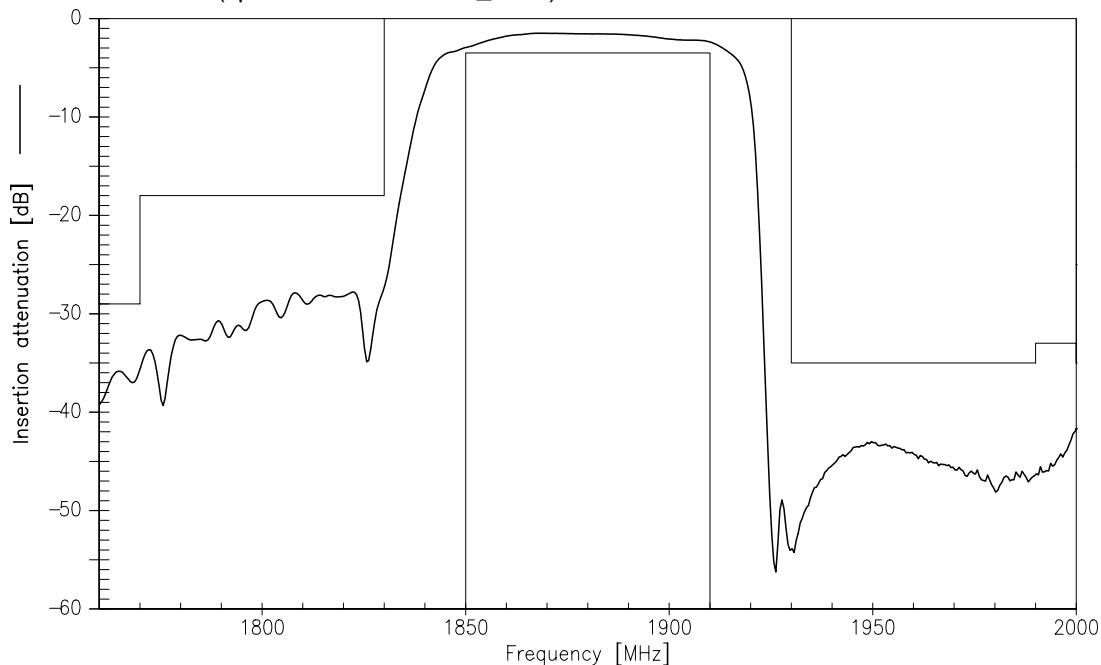
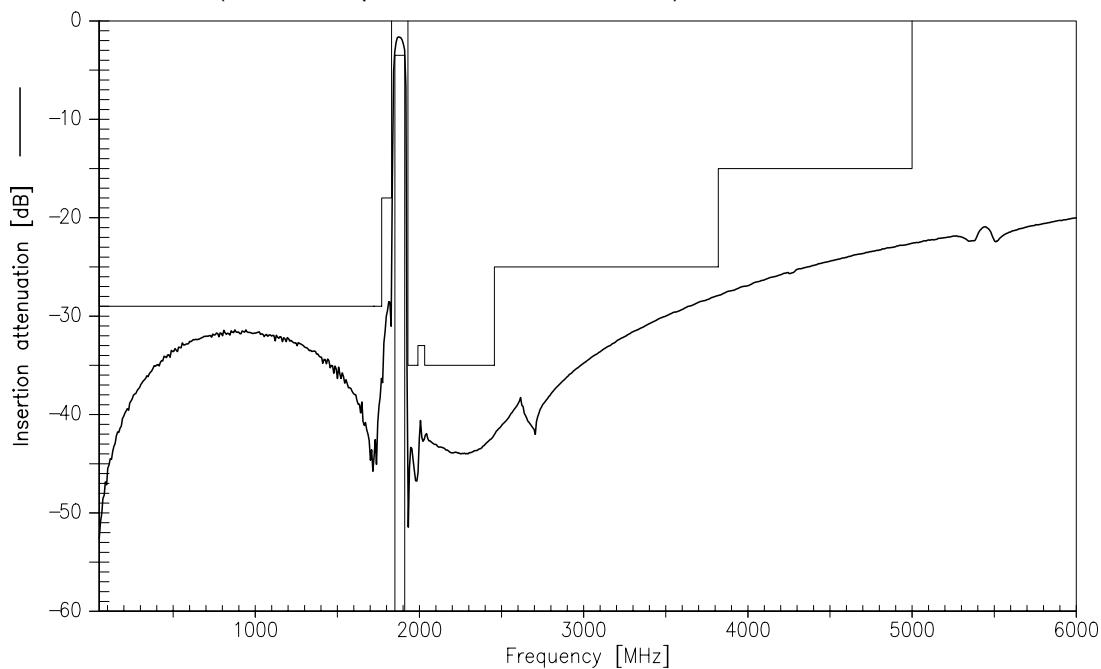
Terminating source impedance: $Z_S = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1880,0	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,9	3,5	dB
1850,0 ... 1910,0MHz		—	—	—	
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,3	1,9	dB
1850,0 ... 1910,0MHz		—	—	—	
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

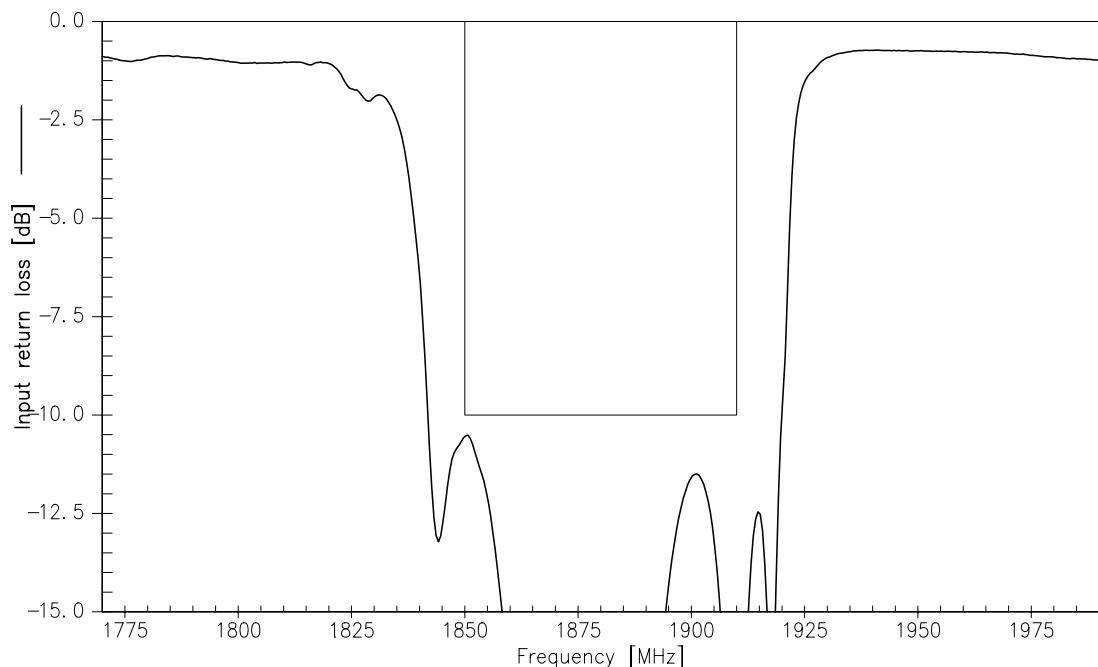
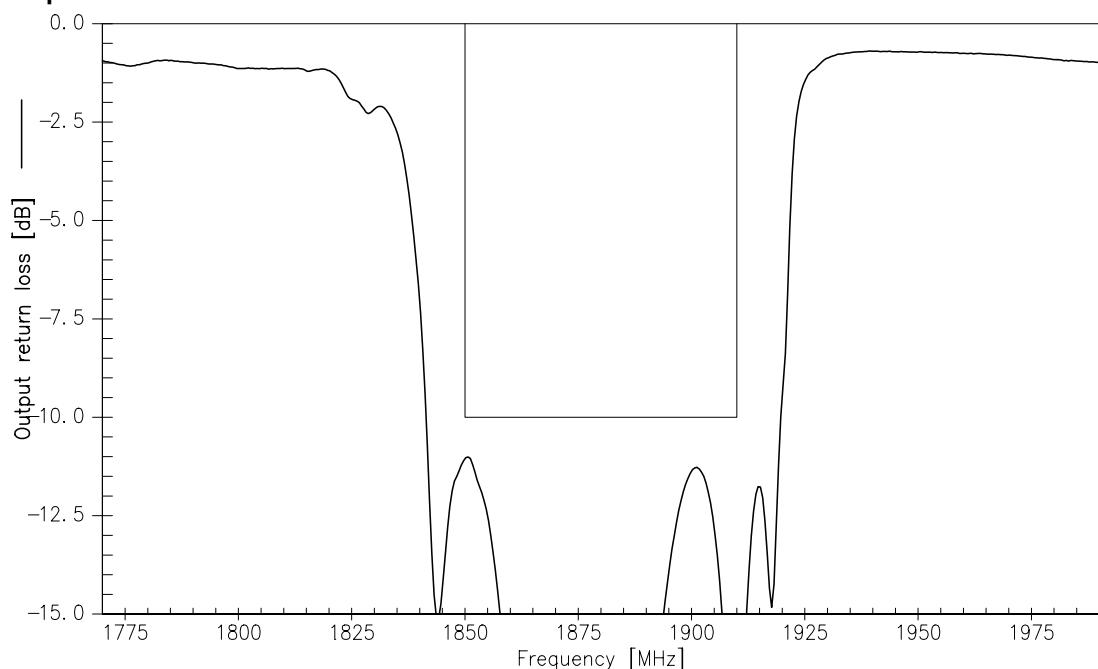
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Low-Loss Filter for Mobile Communication		1880,0 MHz					
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Characteristics							
Operating Temperature Range: $T = -30$ to $+85^\circ\text{C}$							
Terminating source impedance: $Z_S = 50 \Omega$							
Terminating load impedance: $Z_L = 50 \Omega$							
Center frequency	f_C	min.	typ.	max.			
		—	1880,0	—			
Maximum insertion attenuation	α_{\max}						
1850,0 ... 1910,0MHz		—	3,9	4,8			
1850,625 ... 1909,375MHz		—	3,7	4,5			
Amplitude ripple (p-p)	$\Delta\alpha$						
1850,0 ... 1910,0MHz		—	2,4	3,0			
1850,625 ... 1909,375MHz		—	2,2	2,8			
Attenuation	α						
DC ... 1720,0MHz		29	31	—			
1720,0 ... 1770,0MHz		29	33	—			
1770,0 ... 1830,0MHz		10	15	—			
1930,0 ... 1990,0MHz		27	35	—			
1930,625 ... 1989,375MHz		30	36	—			
1990,0 ... 2032,0MHz		33	37	—			
2032,0 ... 2456,0MHz		35	40	—			
2456,0 ... 3820,0MHz		25	28	—			
3820,0 ... 5000,0MHz		15	21	—			
Input return loss							
1850,0 ... 1910,0MHz		9	10	—			
Output return loss							
1850,0 ... 1910,0MHz		9	10	—			

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

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


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

Input

Output




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