

RF Filters for Cellular Phones

The following products presented in this data sheet are being withdrawn.

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

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Data Sheet B7759





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)

bottom view 4 3 0,7 side view 2,5 top view

Chip Sized SAW Package DCS4D

0,1

1

Terminals

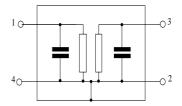
■ Gold-plated Ni

Dimensions in mm, approx. weight 0,012g

Pin configuration

1 Input 3 Output

2, 4 To be grounded



Туре	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	
oporating temperature range	•	007.00	_	
Storage temperature range	T	- 40 /+ 85	°C	
Otorago tomporataro rango	' stg	1071.00		
ESD voltage	V-05*	50*	\/	Machine Model, 10 pulses
LOD Vollage	VESD	00	•	Machine Model, 10 pulses
Input Power max.	P_{IN}	12	dBm	source impedance 50 Ω
input i owei max.	' IN	12	UDIII	300100 Impodanoe 30 22

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



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Characteristics

Operating Temperature Range: $T=25\pm2^{\circ}\mathrm{C}$ Terminating source impedance: $Z_{\mathrm{S}}=50~\Omega$ Terminating load impedance: $Z_{\mathrm{L}}=50~\Omega$

		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	_	1880,0	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
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



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Characteristics

Operating Temperature Range: $T = -30 \text{ to } +85^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 50~\Omega$

		min.	typ.	max.	
Center frequency	f _C	_	1880,0	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
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

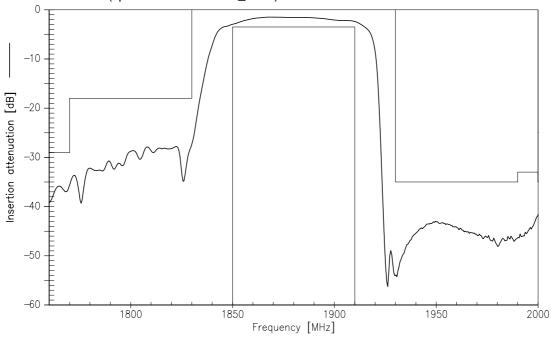


Low-Loss Filter for Mobile Communication

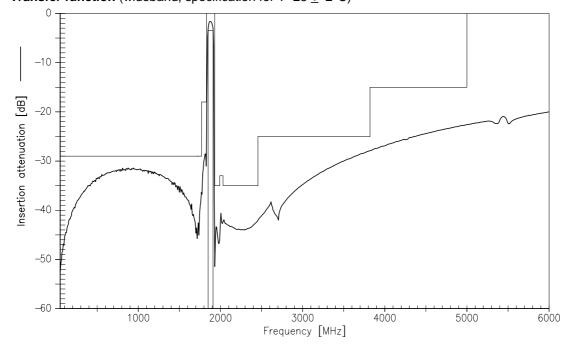
1880,0 MHz

Data Sheet

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



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





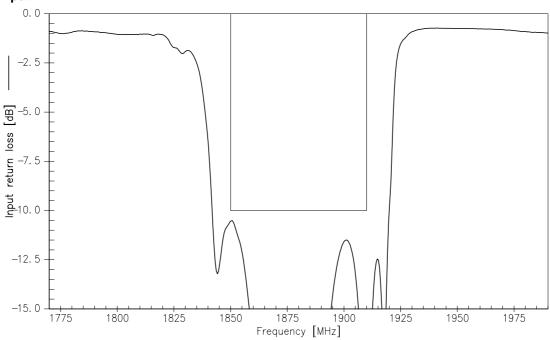
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1880,0 MHz

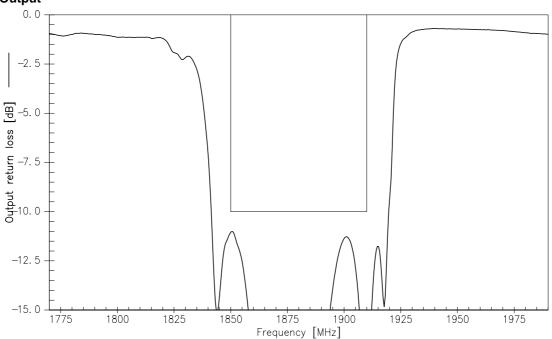
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Matching (specification for $T=25 \pm 2^{\circ}C$)

Input



Output





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1880,0 MHz

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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, D-81617 München

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