



## 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The following products presented in this data sheet are being withdrawn.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
B39881B7751E410		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](http://www.epcos.com/sales).



# SAW Components

Data Sheet B7751





**SAW Components**

**B7751**

**Low-Loss Filter for Mobile Communication**

**881,5 MHz**

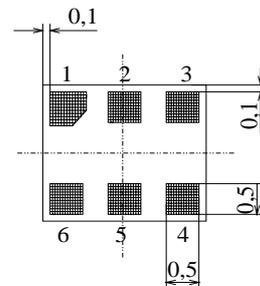
**Data Sheet**



**Chip sized SAW package DCS6P**

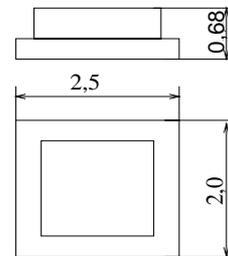
**Features**

- Low-loss RF filter for mobile telephone GSM 850 systems, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Ceramic package for **Surface Mounted Technology (SMT)**



**Terminals**

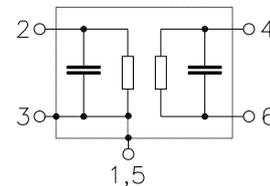
- Ni, gold-plated



Dimensions in mm, approx. weight 0,010g

**Pin configuration**

- 2 Unbalanced input
- 4, 6 Balanced outputs
- 1, 3, 5 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7751	B39881-B7751-E410	C61157-A7-A101	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	- 30 / + 85	°C	peak power of GSM signal, duty cycle 4:8
Storage temperature range	$T_{stg}$	- 40 / + 85	°C	
DC voltage	$V_{DC}$	5	V	
ESD	$V_{ESD}$	100	V	
Input power at GSM850, GSM900, GSM1800 and GSM1900 Tx bands	$P_{IN}$	15	dBm	



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Characteristics

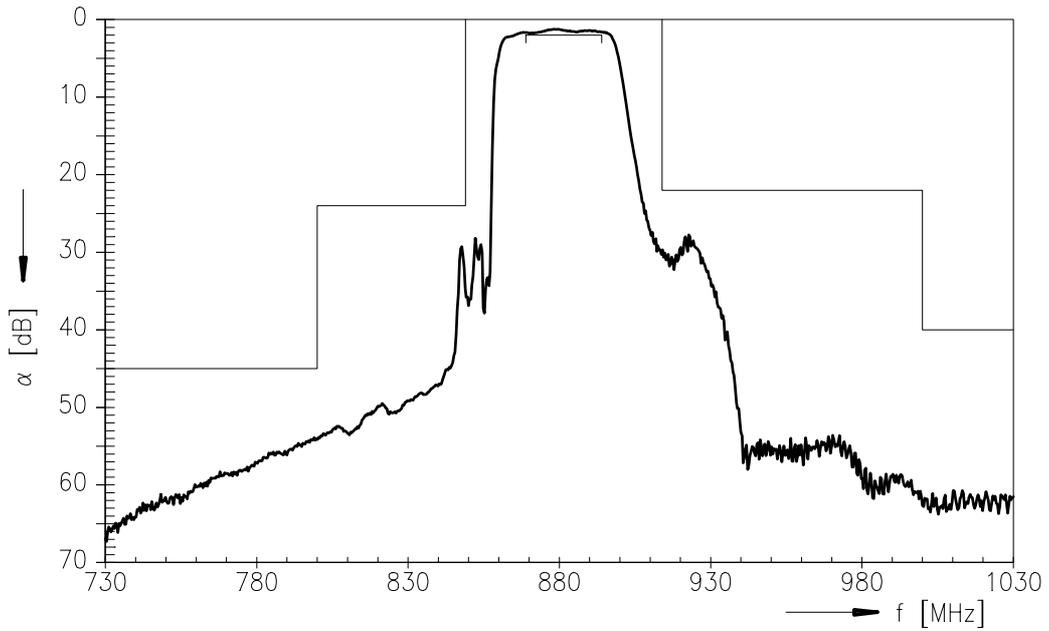


Operating temperature range:  $T = -10$  to  $80$  °C  
 Terminating source impedance:  $Z_S = 50$   $\Omega$   
 Terminating load impedance:  $Z_L = 50$   $\Omega$  (balanced)

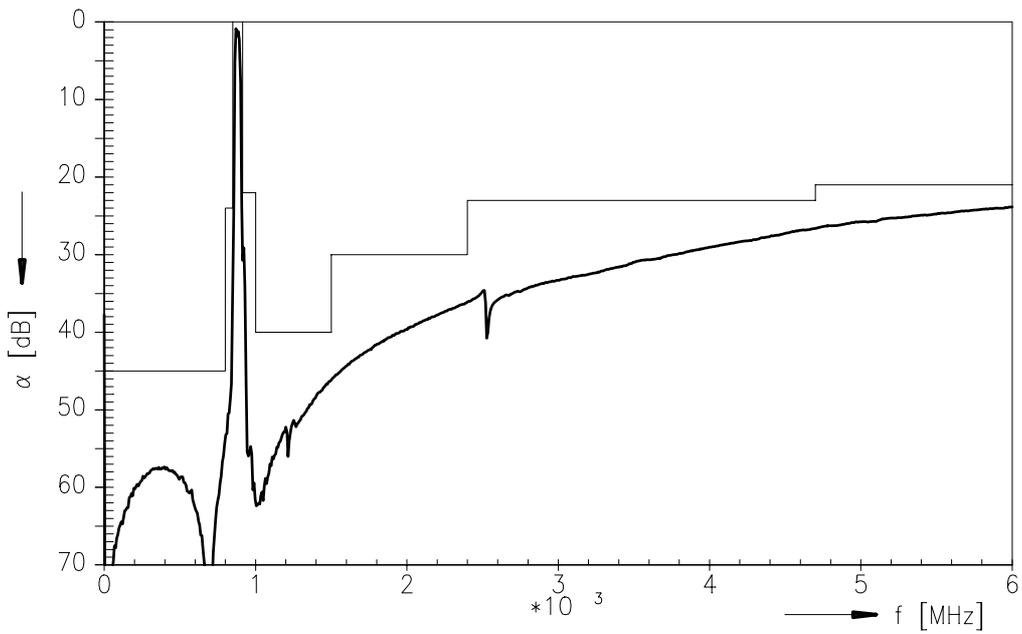
			min.	typ.	max.	
<b>Center frequency</b>	$f_C$		—	881,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	869,0 ... 894,0 MHz	—	1,8	2,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	869,0 ... 894,0 MHz	—	0,6	0,8	dB
<b>Unlanced input VSWR</b>		869,0 ... 894,0 MHz	—	1,7	1,9	
<b>Balanced output VSWR</b>		869,0 ... 894,0 MHz	—	1,6	1,9	
<b>Common mode suppression</b>	$S_{sc12}$	0,1 ... 849,0 MHz	20	50	—	dB
		869,0 ... 894,0 MHz	20	32	—	dB
		914,0 ... 6000,0 MHz	20	27	—	dB
<b>Attenuation</b>	$\alpha$	0,0 ... 800,0 MHz	45	56	—	dB
		800,0 ... 849,0 MHz	24	28	—	dB
		914,0 ... 1000,0 MHz	22	28	—	dB
		1000,0 ... 1500,0 MHz	40	46	—	dB
		1500,0 ... 2400,0 MHz	30	36	—	dB
		2400,0 ... 4700,0 MHz	23	27	—	dB
		4700,0 ... 6000,0 MHz	21	23	—	dB



Transfer function (measurement)



Transfer function (wideband measurement)





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**Published by EPCOS AG**

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This brochure replaces the previous edition.

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