



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The following products presented in this data sheet are being withdrawn.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



SAW Components

Data Sheet B7751

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns overlaid on it, all set against a dark, textured background.



SAW Components

B7751

Low-Loss Filter for Mobile Communication

881,5 MHz

Data Sheet



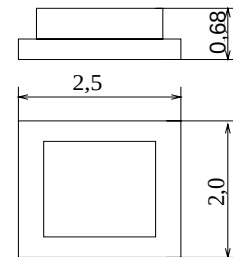
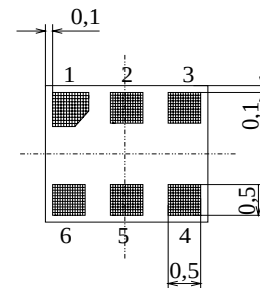
Chip sized SAW package DCS6P

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

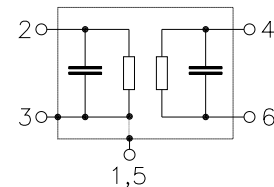
- Ni, gold-plated



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	



SAW Components

B7751

Low-Loss Filter for Mobile Communication

881,5 MHz

Data Sheet Characteristics



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

				min.	typ.	max.	
Center frequency	f_C			—	881,5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	869,0 ... 894,0	MHz	—	1,8	2,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$	869,0 ... 894,0	MHz	—	0,6	0,8	dB
Unlanced input VSWR		869,0 ... 894,0	MHz	—	1,7	1,9	
Balanced output VSWR		869,0 ... 894,0	MHz	—	1,6	1,9	
Common mode suppression	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
Attenuation	α	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



SAW Components

B7751

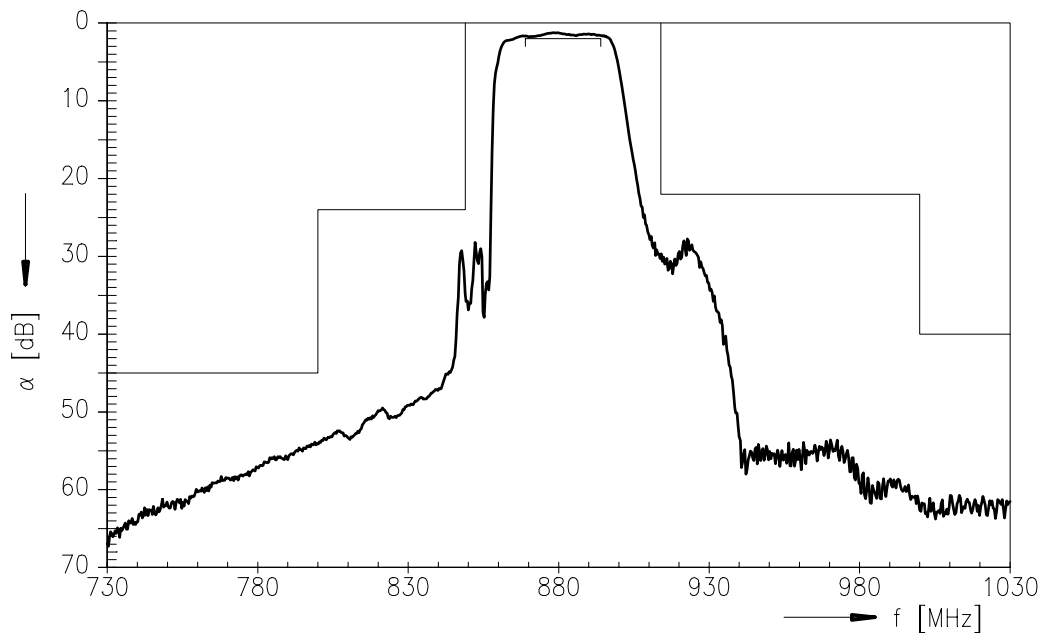
Low-Loss Filter for Mobile Communication

881,5 MHz

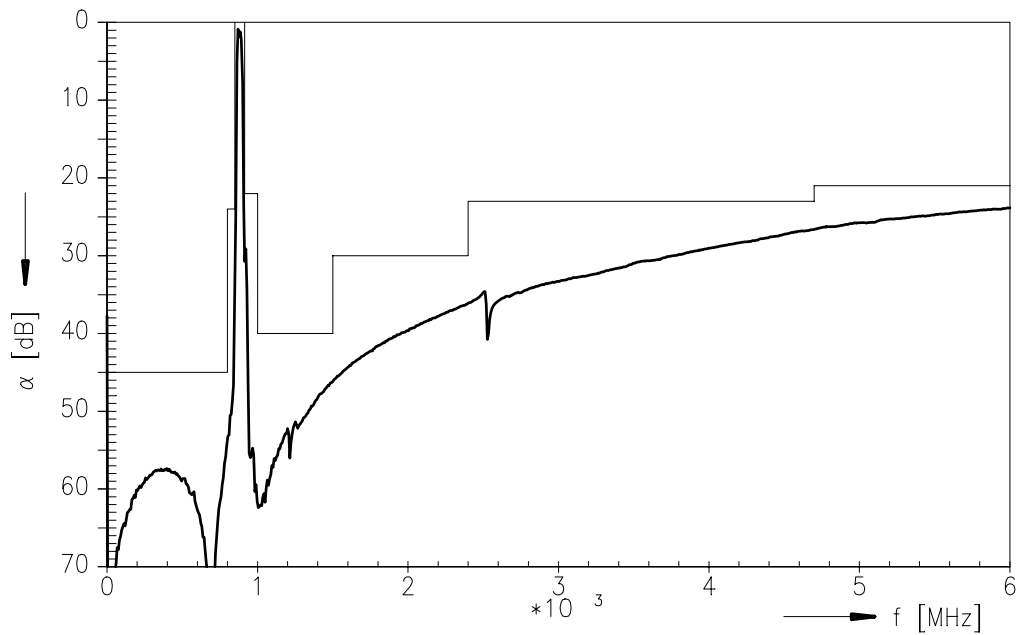
Data Sheet



Transfer function (measurement)



Transfer function (wideband measurement)





SAW Components	B7751
Low-Loss Filter for Mobile Communication	881,5 MHz
Data Sheet	SMD

Published by EPCOS AG

SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY

☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

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.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.