

Data Sheet B7761





B7761

Low-Loss Filter for Mobile Communication

836,5 MHz

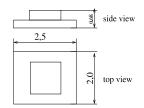
Data Sheet

Features

- Low-loss RF filter for mobile telephone GSM 850 systems, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Balanced to unbalanced operation
- Impedance transformation from 100 Ω
- Suitable for GPRS class 1 to 12
- Ceramic package for Surface Mounted Technology (SMT)

bottom view

Chip sized SAW package DCS6P



Terminals

■ Ni, gold-plated

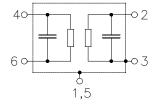
Dimensions in mm, approx. weight 0,010 g

Pin configuration

Balanced input 6 Balanced input

2 Output

1,3,5 Ground, to be grounded



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7761	B39841-B7761-E410	C61157-A7-A101	F61074-V8153-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V_{ESD}	50	V	
Input power at GSM850, GSM900, GSM1800, GSM1900 Tx bands	P_{IN}	15	dBm	peak power of GSM signal, duty cycle 4:8



B7761

Low-Loss Filter for Mobile Communication

836,5 MHz

Data Sheet

 \equiv MD

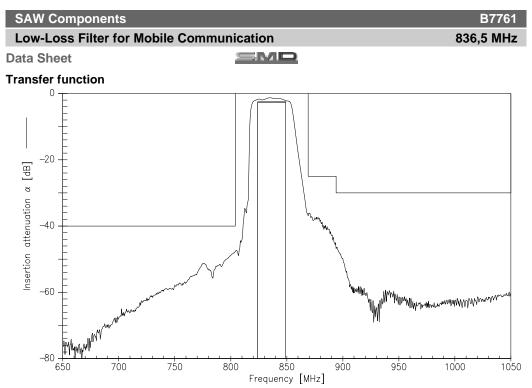
Characteristics

Operating temperature range: T=-10 to +85 °CTerminating source impedance: $Z_{\text{S}}=100 \Omega$ Terminating load impedance: $Z_{\text{L}}=50 \Omega$

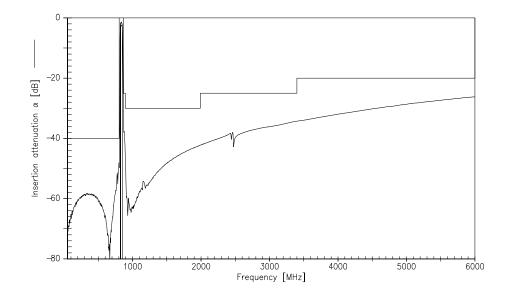
				min.	typ.	max.	
Center frequency			f _C	_	836,5	_	MHz
Maximum insertion attenuation			α_{max}				
824,0 8	849,0	MHz		_	2,3	2,71)	dB
Amplitude ripple (p-p)			Δα				
824,0 8	849,0	MHz		_	1,3	1,5	dB
Input VSWR (balanced)							
824,0 8	849,0	MHz		_	1,9	2,2	
Output VSWR (unbalanced)							
824,0 8	849,0	MHz		_	1,9	2,1	
Attenuation			α				
0,0 8	804,0	MHz		40,0	45,0	_	dB
869,0 8	894,0	MHz		25,0	32,0	_	dB
894,019	990,0	MHz		30,0	42,0	_	dB
1990,03	400,0	MHz		25,0	35,0	_	dB
3400,060	0,000	MHz		20,0	27,0		dB
Amplitude Imbalance				- 1,5		1,0	dB
Phase Imbalance				-10,0		10,0	deg

¹⁾ Maximum I.A from -30 to -10°C is 3.0 dB





Transfer function (wide band)





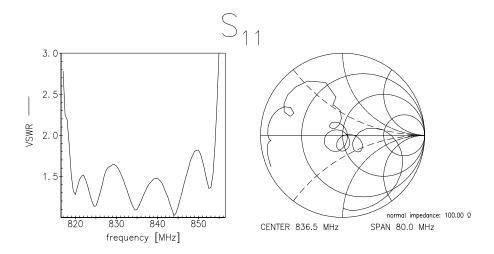
B7761

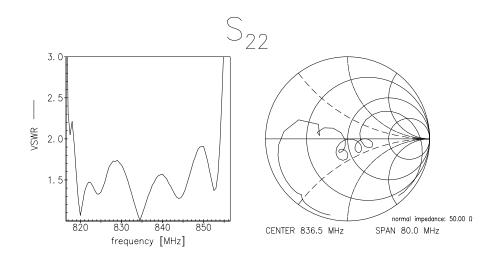
Low-Loss Filter for Mobile Communication

836,5 MHz

Data Sheet

Reflection functions







Low-Loss Filter for Mobile Communication

836,5 MHz

Data Sheet



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

© 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.