

SAW Components

Data Sheet B7764





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B7764

Low-Loss Filter for Mobile Communication

897,50 MHz

Data Sheet



Features

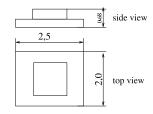
- Low-loss RF filter for mobile telephone EGSM system, transmit path
- Low amplitude ripple
- Usable passband 35 MHz
- Balanced to unbalanced operation
- Impedance transformation from 100 Ω to 50 Ω
- Suitable for GPRS class 1 to 12
- Package for Surface Mounted Technology (SMT)

Terminals

Ni, gold-plated

0,1 4 5 6 bottom view

Chip Sized SAW Package DCS6P

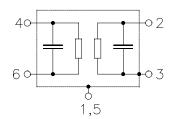


Dimensions in mm, approx. weight 0,010 g

Pin configuration

4	Balanced input
6	Balanced input
2	Output

1,3, 5 Ground, to be grounded



Туре	Ordering code	Marking and Package according to	Packing according to		
B7764	B39901-B7764-E410	C61157-A7-A101	F61074-V8153-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	
Storage temperature range	$T_{\rm sta}$	– 40 / +85	°C	
DC voltage	$T_{ m stg} \ V_{ m DC}$	5	V	
ESD voltage	$V_{\rm MM}$	100	V	machine model
	V_{HBM}	250	V	human body model
Input power at				-
GSM850, GSM900 Tx bands	D	15	dD	peak power of GSM signal, duty
GSM1800, GSM1900 Tx bands	P_{in}	15	dBm	cycle 4:8

2

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Characteristics

T = -10 ... +75 °COperating temperature range:

 $Z_{\rm S}$ = 100 Ω || 33 nH (balanced) $Z_{\rm L}$ = 50 Ω Terminating source impedance:

Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f_{N}	_	897,5	_	MHz
Maximum insertion attenuation					
880,0 915,0 MHz	α_{max}	_	2,9	3,4*	dB
Amplitude ripple (p-p)	Δα				
880,0 915,0 MHz		_	1,3	1,9	dB
Output phase balance $(\phi(S_{31})-\phi(S_{21})+180^{\circ})$					
880,0 915,0 MHz		-10	0	10	0
Output amplitude balance ($ S_{31}/S_{21} $)					
880,0 915,0 MHz		-0,8	0,2	1,2	dB
Input VSWR					
880,0 915,0 MHz		_	1,8	2,1	
Output VSWR					
880,0 915,0 MHz		_	2,0	2,2	
Attenuation	α				
0,0 800,0 MHz		45	58	_	dB
800,0 860,0 MHz		40	46	_	dB
860,0 870,0 MHz		13	23	_	dB
925,0 935,0 MHz		8	15	_	dB
935,01850,0 MHz		25	35	_	dB
1850,06000,0 MHz		20	25	_	dB

^{* 6,5} dB for T= -30 to +85 $^{\circ}$ C



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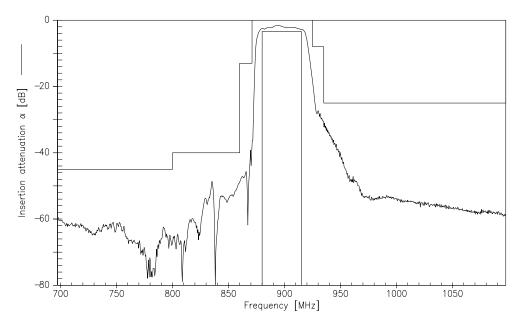
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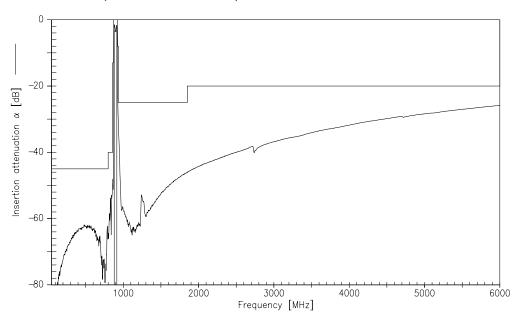
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Transfer function



Transfer function (wideband measurement)





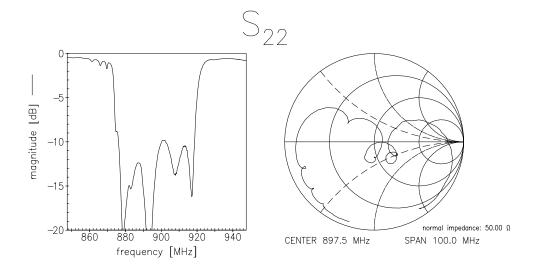
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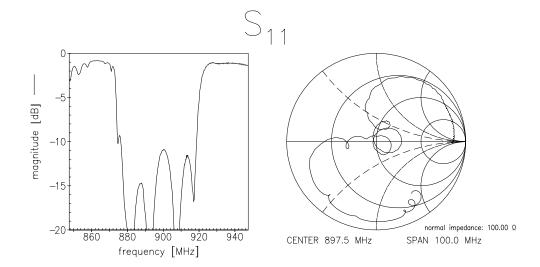
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