

Data Sheet B7764





B7764

Low-Loss Filter for Mobile Communication

897,50 MHz

Data Sheet



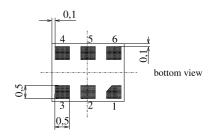
Features

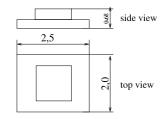
- Low-loss RF filter for mobile telephone EGSM system, transmit path
- Low amplitude ripple
- Usable passband 35 MHz
- Balanced to unbalanced operation
- Impedance transformation from 100 Ω to 50 Ω
- Suitable for GPRS class 1 to 12
- Package for Surface Mounted Technology (SMT)

Terminals

Ni, gold-plated

Chip Sized SAW Package DCS6P





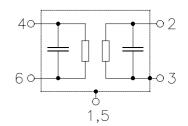
Dimensions in mm, approx. weight 0,010 g

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}^{MM}	250	V	human body model		
Input power at	TIDIVI			,		
GSM850, GSM900 Tx bands		15		neak newer of CSM signal, duty		
	P_{in}		dBm	peak power of GSM signal, duty		
GSM1800, GSM1900 Tx bands		15		cycle 4:8		



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Characteristics

T = -10 ... +75 °C Operating temperature range:

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

Terminating load impedance:

			min.	typ.	max.	
Nominal frequency		f_{N}	_	897,5	_	MHz
Maximum insertion attenuation 880,0 915,0 MHz		$\alpha_{\sf max}$	_	2,9	3,4*	dB
Amplitude ripple (p-p)		Δα				
880,0 915,0	MHz		_	1,3	1,9	dB
Output phase balance $(\phi(S_{31})-\phi(S_{21})+18$ 880,0 915,0			-10	0	10	۰
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			45	58	_	dB
800,0 860,0			40	46	_	dB
860,0 870,0			13	23	_	dB
925,0 935,0 935,01850,0			8 25	15 35	_	dB dB
935,01630,0 1850,06000,0			20	25		dВ

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



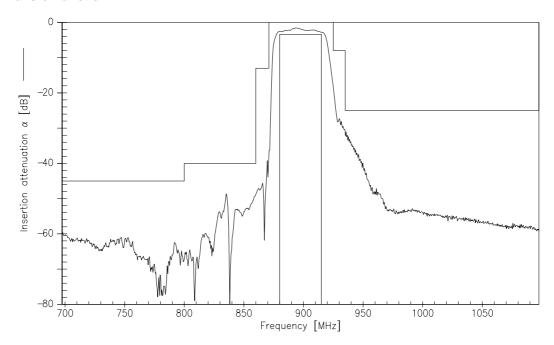
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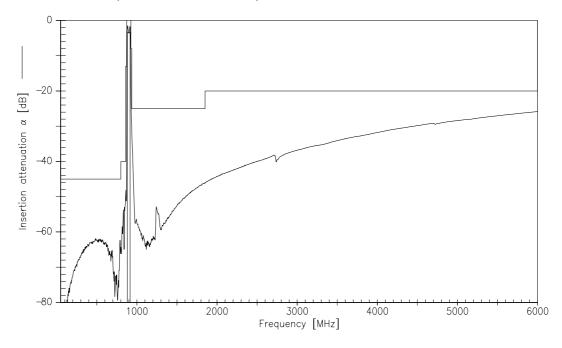
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Transfer function



Transfer function (wideband measurement)





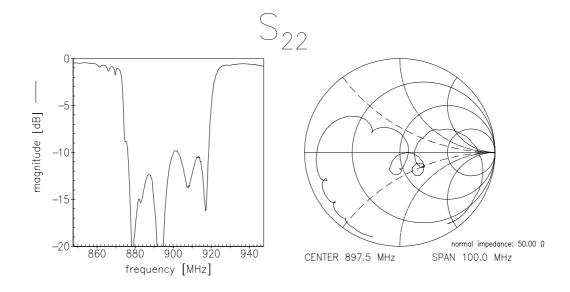
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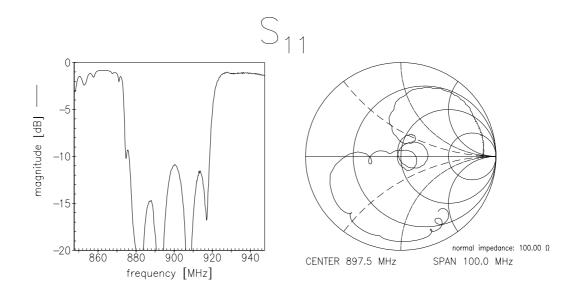
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