Data Sheet B9004







B9004

Low-Loss Filter for Mobile Communication

881,5 MHz

Data Sheet



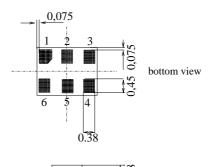
Features

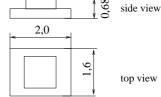
- Low-loss RF filter for mobile telephone GSM850/AMPS system, receive path
- Usable passband 25 MHz
- Unbalanced to balanced operation
- \blacksquare Impedance transformation from 50 Ω to 150 Ω
- Suitable for GPRS class 1 to12
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

■ Ni, gold-plated

Chip sized SAW package DCS6Q

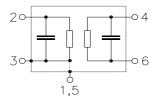




Dimensions in mm, approx. weight 0,006g

Pin configuration

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



Туре	Ordering code	Marking and Package according to	Packing according to		
B9004	B39881-B9004-E710	C61157-Z7-C208	F61074-V8152-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

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



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Characteristics

Operating temperature range: $T = +25 \,^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S}=50~\Omega$ (unbalanced) Terminating load impedance: $Z_{\rm L}=150~\Omega$ (balanced)

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	881,5	_	MHz
Maximum insertion attenuation		α_{max}					
869,0	894,0	MHz	max	_	1,9	2,1	dB
Amplitude ripple (p-p)			Δα				
	894,0	MHz		_	0,6	0,8	dB
Input VSWR			vswr _{IN}				
•	894,0	MHz		_	1,7	1,9	
			vswr _{OUT}				
Output VSWR			VSWIOUT				
869,0	894,0	MHz		_	1,7	1,9	
Common mode Suppression	1		S _{sc12}				
869,0	894,0	MHz		20	25	_	dB
824,0	995,0	MHz		20	25	_	dB
1648,0	1990,0	MHz		20	38	_	dB
3296,0	3980,0	MHz		20	24	_	dB
Attenuation			α				
0,0	820,0	MHz		45	65	_	dB
820,0	849,0	MHz		35	45	_	dB
914,0	954,0	MHz		25	29	_	dB
954,0	6000,0	MHz		45	57	_	dB
6000,0	12750,0	MHz		_	25	_	dB



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Characteristics

Operating temperature range: T=-10 to +80 °CTerminating source impedance: $Z_{\text{S}}=50 \Omega \text{ (unbalanced)}$ Terminating load impedance: $Z_{\text{L}}=150 \Omega \text{ (balanced)}$

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	881,5	_	MHz
	-						
Maximum insertion attenuation		α_{max}			4)		
869,0	894,0	MHz		_	1,9	2,31)	dB
Amplitude ripple (p-p)			Δα				
	894,0	MHz			0,6	1,0	dB
Input VSWR			vswr _{IN}				
869,0	894,0	MHz			1,7	2,0	
Output VSWR			vswr _{OUT}				
869,0	894,0	MHz		_	1,7	2,0	
Common mode Suppression	1		S _{sc12}				
	894,0	MHz	-8012	20	25	_	dB
	995,0	MHz		20	25	_	dB
	1990,0	MHz		20	38	_	dB
	3980,0	MHz		20	24	_	dB
Attenuation			α				
0,0	820,0	MHz	•	45	65	_	dB
820,0		MHz		35	45	_	dB
	954,0	MHz		25	29	_	dB
	6000,0	MHz		45	57	_	dB
6000,0				-	25	_	dB

¹⁾ Maximum insertion attenuation from -30 to -10 & from +80 to +85 $^{\circ}$ C is 2.5 dB



SAW Components

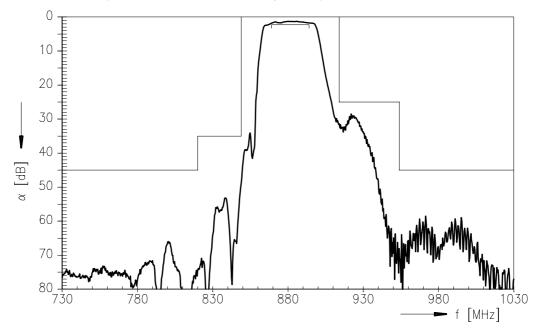
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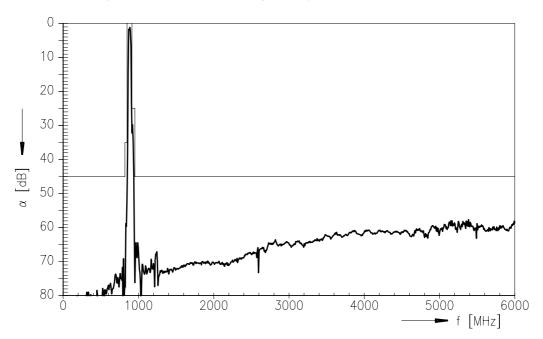
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Transfer function (narrowband; 50 Ω to 150 Ω operation)



Transfer function (wideband; 50 Ω to 150 Ω operation)





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