

SAW Components

Data Sheet B9006





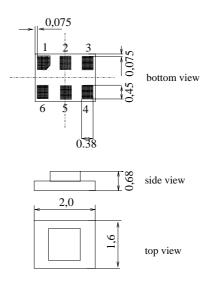
SAW Components	B9006	
Low-Loss Filter for Mo	881,5 MHz	
Data Sheet	SMD	

Data Sheet

Features

- Low-loss RF filter for mobile telephone GSM850/AMPS system, receive path
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 200 Ω
- Suitable for GPRS class 1 to12
- Ceramic package for Surface Mounted Technology (SMT)

Chip sized SAW package DCS6Q



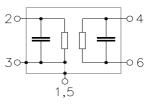
Terminals

Ni, gold-plated

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
B9006	B39881-B9006-E710	C61157-Z7-C208	F61074-V8152-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

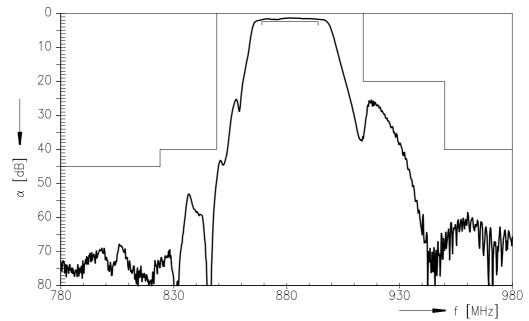
Operable temperature range	Т	- 30 / + 85	°C	
Storage temperature range	$T_{\rm stg}$	- 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
ESD	V_{ESD}	100	V	(machine model)
		250	V	(human body model)
Input power at GSM850, GSM900, GSM1800 and GSM1900 Tx bands	P _{IN}	15	dBm	peak power of GSM signal, duty cycle 4:8



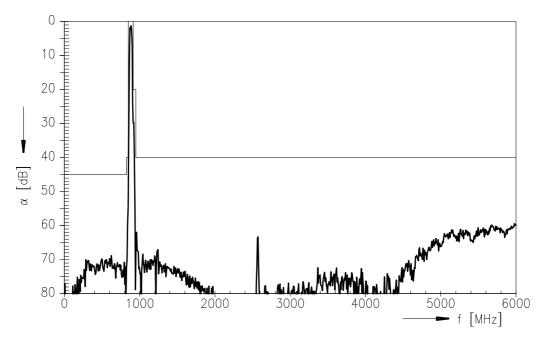
SAW Components						B9006
Low-Loss Filter for Mobile Communication				881,5 MHz		
Data Sheet	$\leq N$					
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:	$Z_{\rm S}$	= 50 Ω	o +85 °C (unbalanc Ω (balance			
			min.	typ.	max.	
Center frequency		f _C		881,5		MHz
Maximum insertion attenuation 869,0 894,0) MHz	α_{max}	_	1,9	2,4	dB
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,0	, .	
Amplitude ripple (p-p)		Δα				
869,0 894,0) MHz			0,6	1,1	dB
Input return loss						
869,0 894,0) MHz		12,0	13,0	_	dB
• • • • •						
Output return loss 869,0 894,0) MHz		12,0	14,0		dB
000,0 004,0			12,0	14,0		
Output phase balance $(\phi(S_{31})-\phi(S_{21})+180^{\circ})$						
869,0 894,0) MHz		-10	0	10	degree
Output amplitude balance (S ₃₁ /S ₂₁)						
869,0 894,0) MHz		-1,0	0	1,0	dB
Attenuation		α	AE	60		
0,0 824,0 824,0 849,0			45 40	68 44		dB dB
914,0 950,0			40 20	25	_	dB
950,06000,0			40	60	—	dB



Transfer function (narrowband; 50 Ω to 200 Ω operation)



Transfer function (wideband; 50 Ω to 200 Ω operation)

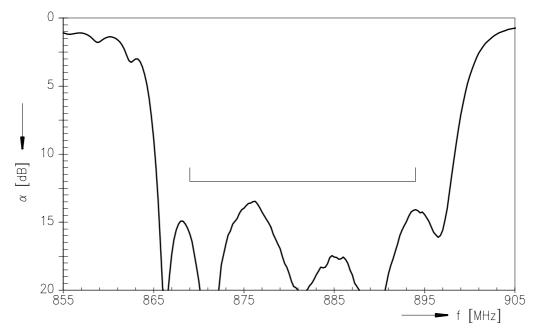


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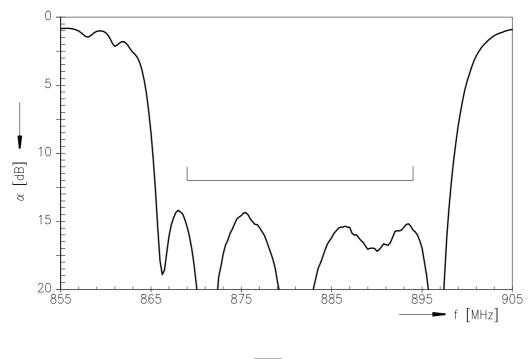


Matching (measurement; 50 Ω to 200 Ω operation)

Input return loss



Output return loss



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Sep 4, 2003



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