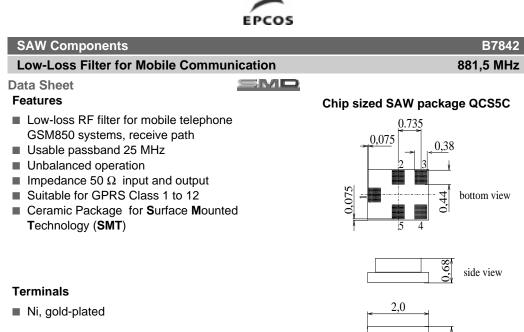
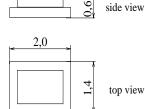


## SAW Components

Data Sheet B7842



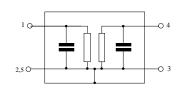




Dimensions in mm, approx. weight 0,007 g

## **Pin configuration**

1	Input, unbalanced		
4	Output, unbalanced		
2, 3, 5	Case ground		
2, 3, 5	to be grounded		



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B7842	B39881-B7842-C710	C61157-A7-A111	F61074-V8151-Z0000

Electrostatic Sensitive Device (ESD)

## Maximum ratings

Operable temperature range	Т	- 30 / + 85	°C
Storage temperature range	T <sub>stg</sub>	- 40 / + 85	°C
DC voltage	V <sub>DC</sub>	5	V
Input power max.	P <sub>IN</sub>	15	dBm



SAW Components					B7842
Low-Loss Filter for Mobile Communication			881	,5 MHz	
Data Sheet					
Characteristics					
Operating temperature:	$T = 25 \pm$				
Terminating source impedance: Terminating load impedance:	$Z_{\rm S} = 50 \ \Omega$ $Z_{\rm I} = 50 \ \Omega$				
reminating load impedance.	$Z_{L} = 50$ S	2			
		min.	typ.	max.	
Center frequency	f <sub>C</sub>	_	881,5	—	MHz
Maximum insertion attenuation	$\alpha_{max}$				
869,0 894,0	MHz	_	1,6	2,0	dB
Amplitude ripple (p-p)	Δα				
869,0 894,0	MHz	_	0,6	1,0	dB
	101112		0,0	1,0	a.D
Input VSWR					
869,0 894,0	MHz	_	1,7	2,0	
Output VSWR					
869,0 894,0	MHz	_	1,7	2,0	
Attenuation	~				
0,0 450,0	α MHz	38,0	44,0		dB
450,0 800,0	MHz	30,0	35,0		dB
800,0 849,0	MHz	24,0	26,0	_	dB
914,0 960,0	MHz	24,0	26,0	_	dB
960,06000,0	MHz	26,0	33,0		dB

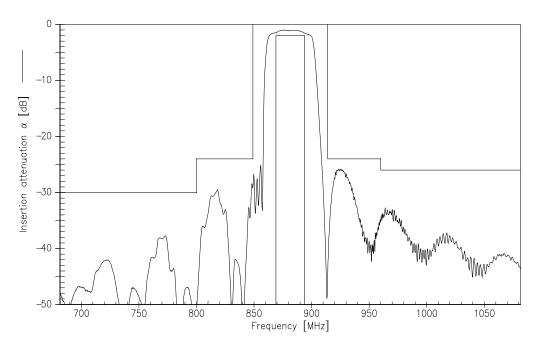
3 17 Sep, 2003



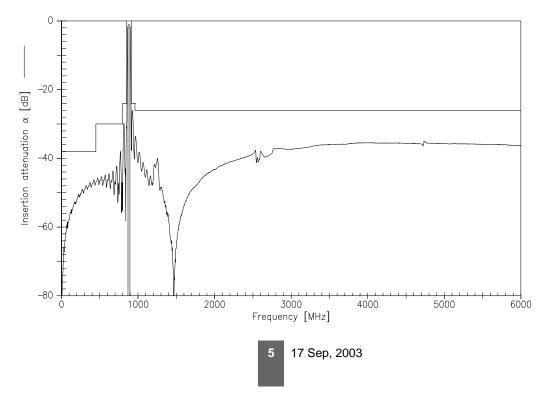
SAW Components					B7842
Low-Loss Filter for Mobile Communication				881	,5 MHz
Data Sheet					
Characteristics					
Operating temperature:		+85 °C			
Terminating source impedance:	$Z_{\rm S} = 50$				
Terminating load impedance:	$Z_{\rm L} = 50$	Ω			
		min.	typ.	max.	
Center frequency	f <sub>C</sub>	—	881,5	—	MHz
Maximum insertion attenuation	$\alpha_{max}$				
869,0 894,0	MHz	_	1,6	2,2	dB
Amplitude ripple (p-p)	Δα				
869,0 894,0	MHz	_	0,6	1,3	dB
			0,0	1,0	40
Input VSWR					
869,0 894,0	MHz	_	1,7	2,1	
Output VSWR					
869,0 894,0	MHz	_	1,7	2,1	
Attenuation	0				
0,0 450,0	α MHz	38,0	44.0		dB
450,0 800,0	MHz	30,0	35,0	_	dB
800,0 849,0	MHz	24,0	26,0		dB
914,0 960,0	MHz	24,0	26,0	_	dB
960,06000,0	MHz	26,0	33,0	_	dB



Transfer function (Narrowband measurement)



Transfer function (Wideband measurement)



	ÉPCOS	
SAW Components		B7842
Low-Loss Filter for Mobile Communication		881,5 MHz
Data Sheet	SMD	

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