

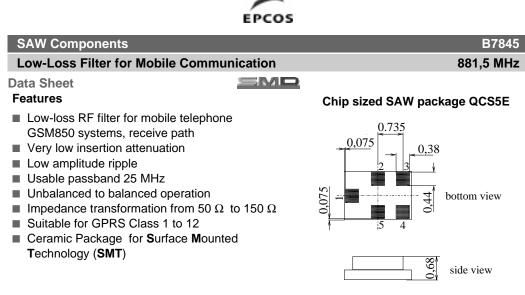
SAW filters for mobile communications

Series/Type: B7845

The following products presented in this data sheet are being withdrawn.

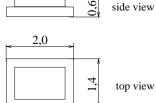
Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39881B7845K410	B39881B9400K610	2009-04-30	2009-10-31	2010-01-31

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Terminals

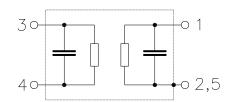
Ni, gold-plated



Dimensions in mm, approx. weight 0,007 g

Pin configuration

1	Input, unbalanced
3, 4	Output, balanced
2, 5	Case ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7845	B39881-B7845-K410	C61157-A7-A131	F61074-V8151-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 / + 85	°C	
Storage temperature range	T _{stg}	- 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	$V_{\rm ESD}^{*}$	100*	V	machine model, 10 pulses
Input power at	$P_{\rm IN}^{}$	15	dBm	peak power of GSM signal,
GSM850, GSM900				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				

2

* acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

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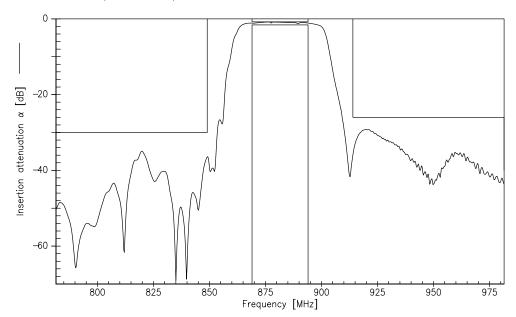
SAW Components							B7845
Low-Loss Filter for Mobile	e Commun	n			881	,5 MHz	
Data Sheet		<u>s</u> r					
Characteristics							
Operating temperature range: Terminating source impedance Terminating load impedance:	:	Z_{S}	= 25 °C = 50 Ω = 150 Ω		(balanced)		
				min.	typ.	max.	
Center frequency			f _C	—	881,5	—	MHz
Maximum insertion attenuati	on		α _{max}				
	894,0	MHz	- Illax	_	1,2	1,5	dB
Amplitude ripple (p-p) 869.0	894,0	MHz	Δα	_	0,4	0,6	dB
000,0	004,0	111112			0,7	0,0	
Input VSWR							
869,0	894,0	MHz		—	1,5	1,8	
Output VSWR							
=	894,0	MHz		—	1,5	1,8	
• · · · ·							
	434,0	MHz		45	54		dB
	434,0	MHz		45 45	52	_	dB
	849,0	MHz		30	35	_	dB
	1000,0	MHz		26	29	_	dB
	1738,0	MHz		28	38	_	dB
	6000,0	MHz		40	46	_	dB
Amplitude balance (S_{31}/S_{21})		MHz		_1.0	-0,5 0,0	1.0	dB
009,0	894,0	ivi⊓Z		-1,0	-0,5 0,0	1,0	UD
Phase balance $(\phi(S_{31}) - \phi(S_{21}) + \phi(S_{31}))$	-180°)						
869,0	894,0	MHz		-5	-3,0 1,5	5	degree
Common mode suppression			S _{sc12}				
869,0	894,0	MHz	3012	20	26	_	dB
	995,0	MHz		20	26	_	dB
	1990,0	MHz		22	40	_	dB
	3980,0	MHz		20	35		dB



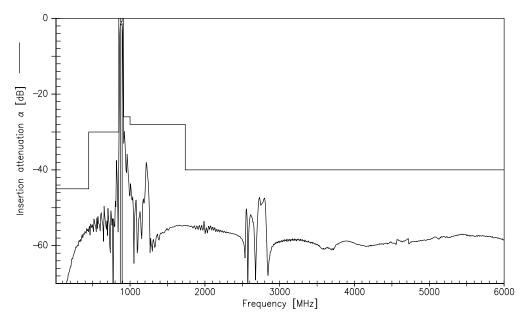
SAW Components							B7845
Low-Loss Filter for Mobile Communication							,5 MHz
Data Sheet			40				
Characteristics							
Operating temperature range: Terminating source impedance Terminating load impedance:	:		= 50 Ω		(balanced)		
				min.	typ.	max.	
Center frequency			f _C	_	881,5	_	MHz
Maximum insertion attenuati 869,0	on 894,0	MHz	$lpha_{max}$	_	1,3	1,6	dB
Amplitude ripple (p-p) 869,0	894,0	MHz	Δα	_	0,6	0,8	dB
Input VSWR 869,0	894,0	MHz		_	1,6	1,8	
Output VSWR 869,0	894,0	MHz		_	1,6	1,8	
Attenuation							
	434,0	MHz		45	54	_	dB
	447,0	MHz		45	52	_	dB
447,0	849,0	MHz		30	35	_	dB
914,0	1000,0	MHz		26	29	_	dB
1000,0	1738,0	MHz		28	38	_	dB
1738,0	6000,0	MHz		40	46	—	dB
Amplitude balance (S_{31}/S_{21})							
869,0	894,0	MHz		-1,0	-0,6 0,0	1,0	dB
Phase balance $(\phi(S_{31})-\phi(S_{21})+\phi(S_{31}))$	-180°)						
869,0	894,0	MHz		-5	-3,0 1,5	5	degree
Common mode suppression			S_{sc12}				
869,0	894,0	MHz		20	26	—	dB
824,0	995,0	MHz		20	26	—	dB
1648,0 3296,0	1990,0 3980,0	MHz MHz		22 20	40 35	_	dB dB



Transfer function (narrow band)



Transfer function (wideband)



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	ÉPCOS	
SAW Components		B7845
Low-Loss Filter for Mo	881,5 MHz	
Data Sheet	SMD	

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This brochure replaces the previous edition.

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