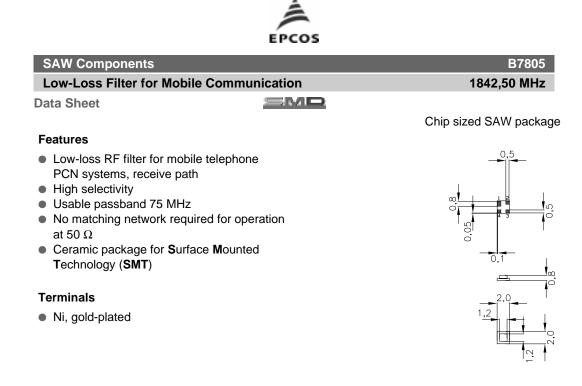


SAW Components

Data Sheet B7805

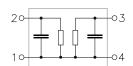




Dimensions in mm, approx. weight 0,01 g

Pin configuration

2	Input
1	Input - ground
3	Output
4	Output - ground



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B7805	B39182-B7805-A510	C61157-A7-A63	F61074-V8099-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 30/+ 80	°C	
Storage temperature range	T _{stg}	- 40/+ 85	°C	
DC voltage	V _{DC}	3	V	
Input power max. 1710 1785 MHz	P _{IN}	15	dBm	source and load impedance 50 Ω peak power of GSM signal, duty cycle 1 : 8
elsewhere		0	dBm	continuous wave

2 Aug 29, 2001

Downloaded from Elcodis.com electronic components distributor



SAW Components						B7805
Low-Loss Filter for Mobile Commun	1842,5	0 MHz				
Data Sheet						
Characteristics						
Operating temperature range:	Т	= 25 +-				
Terminating source impedance:		= 50 Ω				
Terminating load impedance:	Z_{L}	= 50 Ω				
			min.	typ.	max.	
Center frequency		f _c	—	1842,5	_	MHz
Maximum insertion attenuation		α _{max}				
1805,01880,0) MHz	onnax	_	2,6	3,1	dB
Amplitude ripple (p-p) 1805,01880,0) MHz	Δα	_	1,0	1,5	dB
1000,0 1000,0				1,0	1,5	
Input VSWR						
1805,01880,0) MHz		—	1,8	2,0	
Output VSWR						
1805,01880,0) MHz		—	1,8	2,0	
Attenuation						
10,0 500,0) MHz	α	19,0	20,0		dB
500,01200,0			13,6	18,5	_	dB
1200,01705,0			19,0	20,0	_	dB
1705,01785,0			18,0	21,0	_	dB
1920,01980,0) MHz		18,0	30,0		dB
1980,02700,0) MHz		23,0	26,0	—	dB
2700,03840,0) MHz		15,0	17,0	—	dB
3840,06000,0) MHz		13,0	16,0	_	dB



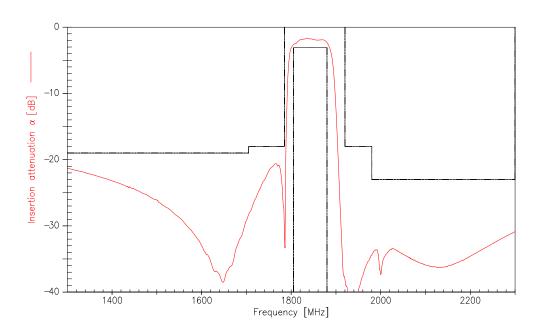
Low-Loss Filter for Mobile Commun	1842,5	0 MHz				
Data Sheet	<u>s</u>					
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:		= -10 to = 50 Ω = 50 Ω	o +80°C			
			min.	typ.	max.	
Center frequency		f _c	_	1842,5		MHz
Maximum insertion attenuation 1805,01880,0	MHz	α_{max}	_	3,1	3,5	dB
Amplitude ripple (p-p) 1805,0 …1880,0	MHz	Δα	_	1,5	1,9	dB
Input VSWR 1805,01880,0	MHz		_	1,9	2,1	
Output VSWR 1805,01880,0	MHz		_	1,9	2,1	
Attenuation		α				
10,0 500,0 500,01200,0 1200,01705,0	MHz		19,0 17,5 19,0	20,0 18,5 20,0	_	dB dB dB
1705,01785,0	MHz		10,0	16,0	_	dB
1920,01980,0 1980,02700,0			10,0 23,0	25,0 26,0	_	dB dB
2700,03840,0 3840,06000,0			15,0 13,0	17,0 16,0	_	dB dB



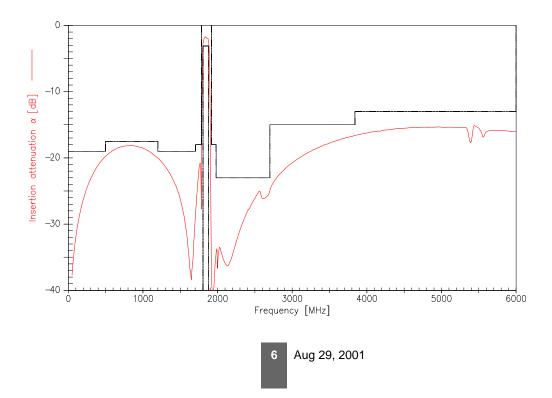
SAW Components					B7805
Low-Loss Filter for Mobile Comm		1842,5	0 MHz		
Data Sheet	<u>SMD</u>				
Characteristics					
Operating temperature range: Terminating source impedance: Terminating load impedance:	$T = -30 \text{ t}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$				
		min.	typ.	max.	
Center frequency	f _c	_	1842,5		MHz
Maximum insertion attenuation 1805,0188	α _{max} 0,0 MHz	_	3,3	3,7	dB
Amplitude ripple (p-p) 1805,0188	Δα 0,0 MHz	_	1,7	2,1	dB
Input VSWR 1805,0188	0,0 MHz	_	2,1	2,3	
Output VSWR 1805,0188	0,0 MHz	_	2,1	2,3	
Attenuation	α				
10,0 50 500,0120 1200,0170	0,0 MHz	19,0 17,5 19,0	20,0 18,5 20,0		dB dB dB
1705,0178 1920,0198 1980,0270	0,0 MHz	8,0 10,0 23,0	14,0 25,0 26,0		dB dB dB
2700,0384 3840,0600	0,0 MHz	15,0 13,0	17,0 16,0		dB dB



Transfer function (spec for 25°C)



Transfer function (wideband)



	ÉPCOS	
SAW Components		B7805
Low-Loss Filter for Mo	bile Communication	1842,50 MHz
Data Sheet	SMD	

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2000. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.

