

SAW filters for mobile communications

Series/Type: B7831

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39182B7831C710	B39182B9441M410	2009-06-19	2009-12-31	2010-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW Components

B7831

Low-Loss Filter for Mobile Communication

1765,00 MHz

Chip sized SAW package

Data Sheet

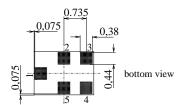


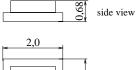
Features

- Low-loss RF filter for mobile telephone Korean PCS systems, transmit path
- Usable passband 30 MHz
- \blacksquare No matching network required for operation at 50 Ω
- Ceramic package for **S**urface **M**ounted technology (**SMT**)

Terminals

■ Ni, gold-plated





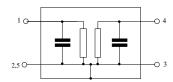
top view

Dimensions in mm, approx. weight 0,007 g

Pin configuration

1 Input 4 Output

2,3,5 To be grounded



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7831	B39182-B7831-C710	C61157-A7-A111	F61074-V8151-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30/+ 85	°C	
Storage temperature range	T_{stq}	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.	P_{INI}	10	dBm	CDMA signal



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Characteristics

Operating temperature range:

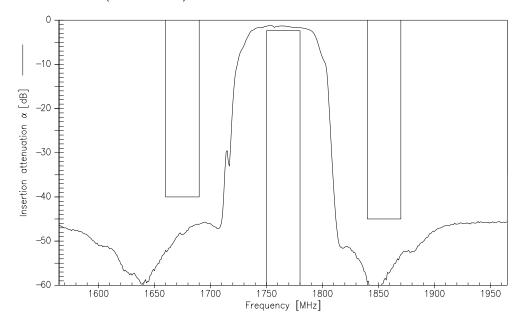
 $T = -30 \text{ to } +85^{\circ}\text{C}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

					min.	typ.	max.	
Center frequency				f _c	_	1765,0	_	MHz
Maximum insertion a		on 1780,0	MHz	α_{max}	_	1,8	2,4	dB
Amplitude ripple (p-p	o) 1750,0	1780,0	MHz	Δα	_	0,6	1,2	dB
VSWR	1750,0	1780,0	MHz		_	1,5	1,9	
Attenuation	1350,0 1660,0 1840,0 2150,0	1380,0 1690,0 1870,0 2180,0	MHz MHz MHz MHz	α	35,0 40,0 45,0 40,0	40,0 46,0 52,0 47,0	_ _ _ _	dB dB dB dB

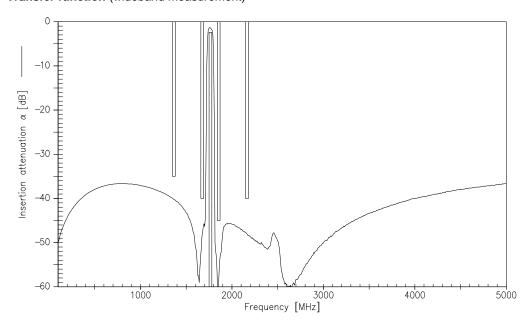




Transfer function (measurement)



Transfer function (wideband measurement)





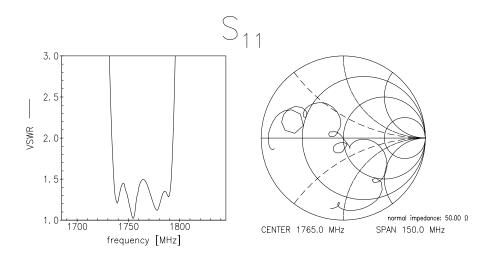
SAW Components B7831

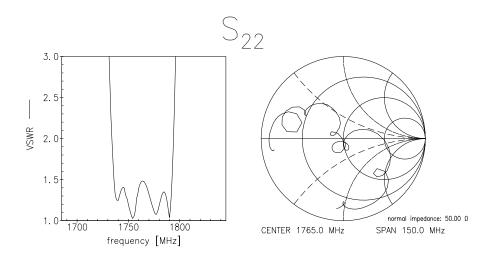
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Matching (measurement)







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1765,00 MHz

Data Sheet



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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.

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