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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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SAW Mobile Communications

Series/Type: B7740

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39202B7740C810	B39202B9008E610	06.07.2007	31.01.2008	30.04.2008

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

B7740

Low-Loss Filter for Mobile Communication

1960,0 MHz

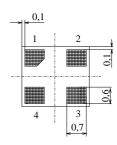
Data Sheet



Chip Sized SAW Package DCS4D

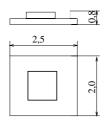
Features

- RF filter for mobile telephone PCS systems, receive path
- Low insertion loss, low amplitude ripple
- Usable passband 60 MHz
- Suitable for GPRS class 1 to 12
- Package for Surface Mounted Technology (SMT)



Terminals

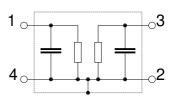
■ Gold-plated Ni



Dimensions in mm, approx. weight 0,012 g

Pin configuration

1	Input
3	Output
24	Ground



Туре	Ordering code	Marking and Package according to	Packing according to
B7740	B39202-B7740-C810	C61157-A7-A89	F61074-V8125-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	– 10/+ 80	°C	
Storage temperature range	$T_{ m stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
ESD voltage	V_{ESD}	50	V	
Input Power at				
GSM850, GSM900	P_{IN}	15	dBm	peak power of GSM signal,
GSM1800, GSM1900	P_{IN}	12	dBm	duty cycle 4:8
tx bands				



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Data Sheet

Characteristics

 $T = 25 \,^{\circ}\text{C} + / -2 \,^{\circ}\text{C}$ Operating temperature range :

 $\begin{array}{ll} Z_{\rm S} &= 50~\Omega \\ Z_{\rm L} &= 50~\Omega \end{array}$ Terminating source impedance: Terminating load impedance:

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	60,0 — 2,8 3,2 1,3 1,7	dB dB
1930,0 1990,0 MHz — 2 Amplitude ripple (p-p) Δα — 1 1930,0 1990,0 MHz — 1	31 —	dB
Amplitude ripple (p-p) Δα 1930,0 1990,0 MHz — 1	31 —	dB
1930,0 1990,0 MHz — 1	31 —	
	31 —	
Attenuation		dB
Attendation		dB
DC 1500,0 MHz 28 3	00	
1500,0 1830,0 MHz 25 25	29 —	dB
1830,0 1910,0 MHz 12	14 —	dB
2010,0 2070,0 MHz 12	14 —	dB
2070,0 2500,0 MHz 21 21	23 —	dB
2500,0 3000,0 MHz 24 2	28 —	dB
3000,0 4500,0 MHz 28 3	35 —	dB
4500,0 5200,0 MHz 26 3	32 —	dB
5200,0 6000,0 MHz 24 3	30 —	dB
Input vswr		
1930,0 1990,0 MHz	2,2 2	.3
Output vswr		
1930,0 1990,0 MHz	2,2 2	3
Tx band suppression α		
1830,0 1910,0 MHz 12	14 —	dB



SAW Components

B7740

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet



Characteristics

Operating temperature range :

 $T = -10 \text{ to } +80 \,^{\circ}\text{C}$ $Z_{\text{S}} = 50 \,\Omega$ $Z_{\text{L}} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	1960,0	_	MHz
Maximum insertion attenuation		$lpha_{\sf max}$					
1930,0	1990,0	MHz		_	2,8	3,2	dB
Amplitude ripple (p-p)		$\Delta \alpha$					
1930,0	1990,0	MHz		_	1,3	1,7	dB
Attenuation			α				
DC	1500,0	MHz		28	31	_	dB
1500,0	1830,0	MHz		25	29	_	dB
1830,0	1910,0	MHz		10	13	_	dB
2010,0	2070,0	MHz		10	13	_	dB
2070,0	2500,0	MHz		21	23	_	dB
2500,0	3000,0	MHz		24	28	_	dB
3000,0	4500,0	MHz		28	35	_	dB
4500,0	5200,0	MHz		26	32	_	dB
5200,0	6000,0	MHz		24	30	_	dB
Input vswr							
1930,0	1990,0	MHz			2,2	2,3	
Output vswr							
1930,0	1990,0	MHz			2,2	2,3	
Tx band suppression		α					
1830,0	1910,0	MHz		10	13	_	dB



SAW Components B7740

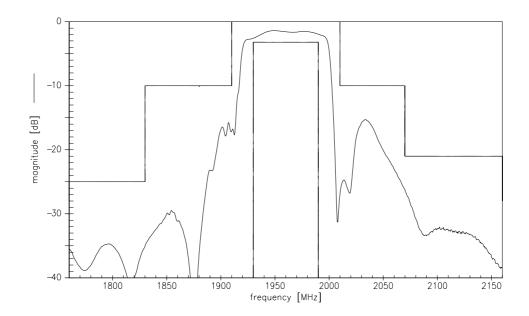
Low-Loss Filter for Mobile Communication

1960,0 MHz

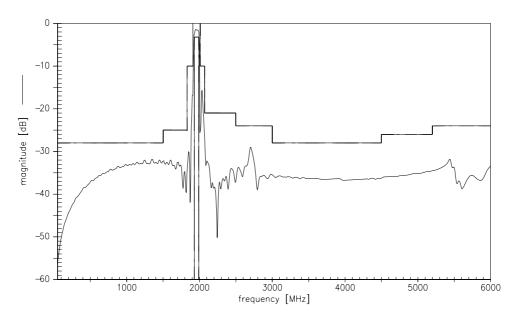
Data Sheet

Transfer function

narrow band



wide band





SAW Components B7740

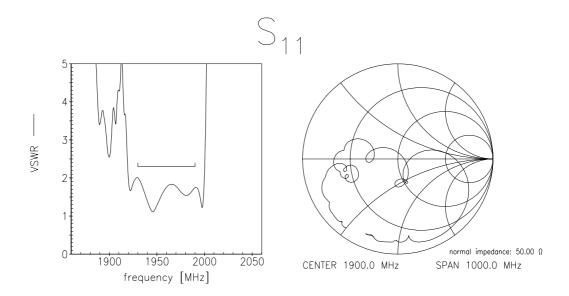
Low-Loss Filter for Mobile Communication

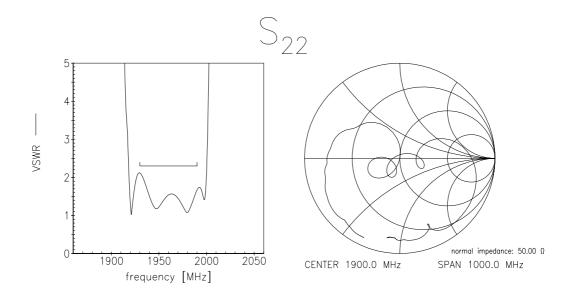
1960,0 MHz

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Reflection functions







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1960,0 MHz

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This brochure replaces the previous edition.

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