

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The following products presented in this data sheet are being withdrawn.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

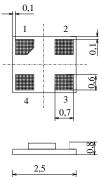


Features

- 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

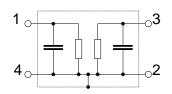




Dimensions in mm, approx. weight 0,012 g

Pin configuration

1	Input
3	Output
2,4	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	Т	- 10/+ 80	°C	
Storage temperature range	T _{stg}	- 40/+ 85	°C	
DC voltage	V _{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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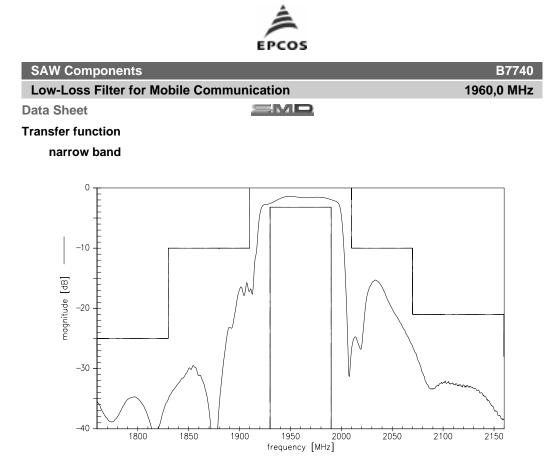
SAW Compone							B774(
Low-Loss Filter	for Mobile			196	0,0 MH:		
Data Sheet			<u>smd</u>				
Characteristics							
Operating temperat			T = 25 °C +	/-2 °C			
Terminating source	•	:	$Z_{\rm S}$ = 50 Ω				
Terminating load im	pedance:		$Z_{\rm L}$ = 50 Ω				
				min.	typ.	max.	
Center frequency			f _C	_	1960,0		MHz
Maximum insertio	n attenuati	on	α _{max}				
1930,0	1990,0		~max	_	2,8	3,2	dB
Amplitude ripple (o-p)		Δα				
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		12	14	—	dB
2010,0	2070,0	MHz		12	14		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			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 suppress	ion		α				
1830,0	1910,0			12	14		dB

SAW Componen	ts						B7740
Low-Loss Filter for Mobile Communication Data Sheet							,0 MHz
Characteristics							
Operating temperat Terminating source Terminating load im	impedance	:	$T = -10 \text{ to } +8$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$	30 °C			
				min.	typ.	max.	
Center frequency			f _C		1960,0	_	MHz
Maximum insertion	n attenuati	on	α_{max}				
1930,0	1990,0	MHz			2,8	3,2	dB
Amplitude ripple (р-р)		Δα				
1930,0	1990,0	MHz			1,3	1,7	dB
Attenuation			α				
DC	1500,0	MHz		28	31	—	dB
1500,0	1830,0			25	29		dB
1830,0	1910,0			10	13	—	dB
2010,0	2070,0			10	13		dB
2070,0	2500,0			21	23		dB
2500,0	3000,0			24	28	—	dB
3000,0	4500,0			28	35	—	dB
4500,0	5200,0			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 suppress	ion		α				
1830,0	1910,0	MHz		10	13	_	dB

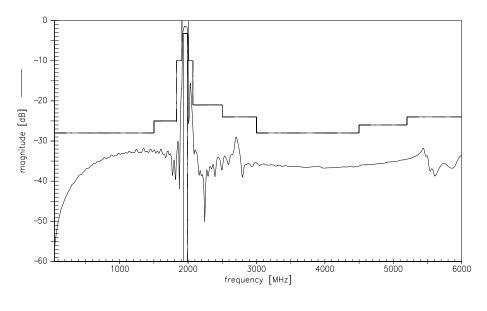


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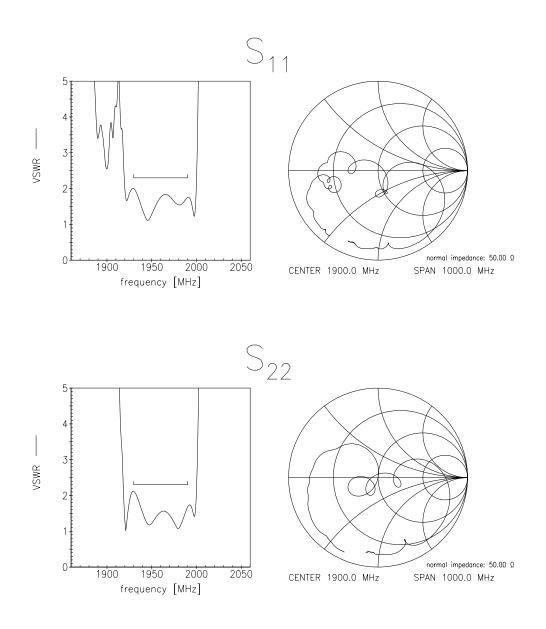
wide band



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Reflection functions



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	EPCOS	
SAW Components		B7740
Low-Loss Filter for Mo	obile Communication	1960,0 MHz
Data Sheet		

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Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, 81617 Munich, GERMANY

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This brochure replaces the previous edition.

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