

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The following products presented in this data sheet are being withdrawn.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



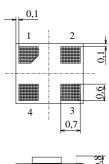
SAW Components		B7740
Low-Loss Filter for Mobile Communication		1960,0 MHz
Data Sheet	SMD	

Features

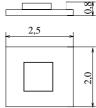
- RF filter for mobile telephone PCS systems, receive path
- Low insertion loss, low amplitude ripple
- Usable passband 60 MHz
- Suitable for GPRS class 1 to 12
 Declass for Surface Mounted
- Package for Surface Mounted Technology (SMT)

Terminals

Gold-plated Ni



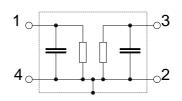
Chip Sized SAW Package DCS4D



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	ə T	- 10/+ 80	°C	
Storage temperature range	$T_{\rm stg}$	- 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	-			

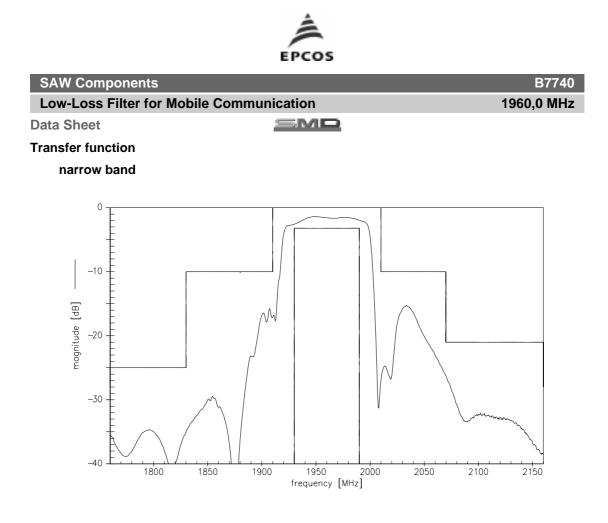
2



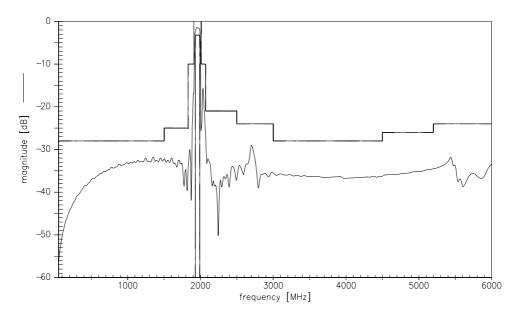
SAW Componen	ts						B7740
Low-Loss Filter for Mobile Communication						196	0,0 MHz
Data Sheet			SMD				
Characteristics							
Operating temperatu			T = 25 °C +	/-2 °C			
Terminating source in		:	$Z_{\rm S}$ = 50 Ω				
Terminating load imp	edance:		$Z_{L} = 50 \Omega$				
				min.	typ.	max.	
Center frequency			f _C		1960,0	—	MHz
Maximum insertion	attenuati	on	$\alpha_{\sf max}$				
1930,0	1990,0		- indX	_	2,8	3,2	dB
Amplitude ripple (p-	-a)		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	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 suppressio	on		α				
1830,0	1910,0	MHz		12	14		dB



Low-Loss Filter for Mobile Communication							1960,0 MH		
Data Sh	leet								
Charac	teristics								
Termina	ng temperatu ating source i ating load imp	mpedance	:	$T = -10 \text{ to } + Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$	80 °C				
					min.	typ.	max.		
Center	frequency			f _C	—	1960,0	_	MHz	
Maximu	im insertion	attenuati	on	α_{max}					
	1930,0	1990,0	MHz		-	2,8	3,2	dB	
Amplitu	ide ripple (p	-р)		Δα					
	1930,0	1990,0	MHz		-	1,3	1,7	dB	
Attenua	ation			α					
	DC	1500,0			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 v									
	1930,0	1990,0	MHz			2,2	2,3		
Output	vswr								
-	1930,0	1990,0	MHz			2,2	2,3		
Tx band	d suppressio	on		α					
	1830,0	1910,0			10	13		dB	



wide band

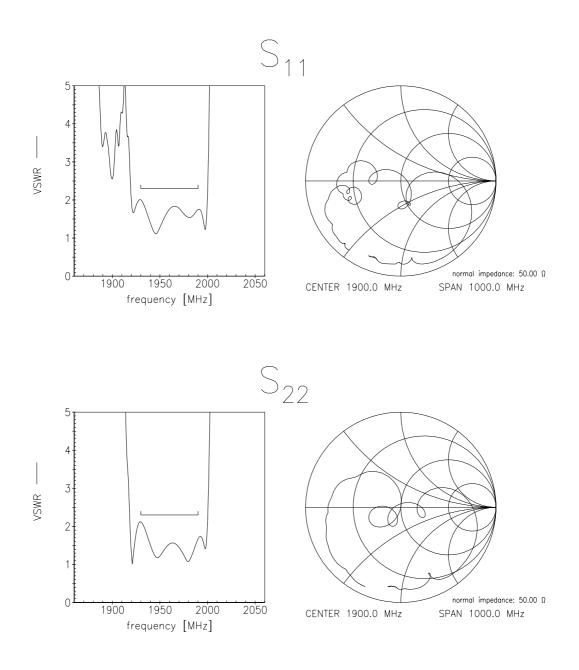


June 3, 2002



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

Reflection functions



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

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This brochure replaces the previous edition.

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