# imall

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### Contact us

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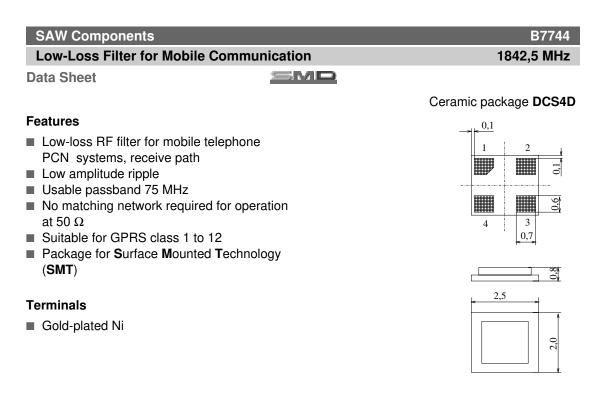
## **RF Filters for Cellular Phones**

#### Series/Type: B7744

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39182B7744C810	B39182B7822C710	2007-09-21	2007-12-31	2008-03-31

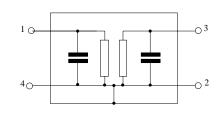
For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



Dimensions in mm, approx. weight 0,012 g

#### **Pin configuration**

-	
1	Input
3	Output
2, 4	To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to
B7744	B39182-B7744-C810	C61157-A7-A89	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Operable temperature range	Т	- 10 / + 80	°C	
Storage temperature range	T <sub>stg</sub>	- 40 / + 85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD voltage	V <sub>ESD</sub>	50	V	
Input power at				
GSM850, GSM900	P <sub>IN</sub>	15	dBm	peakpowerofGSMsignal
GSM1800, GSM1900	P <sub>IN</sub>	12	dBm	duty cycle 4:8
Tx bands				

#### **⊘TDK**

SAW Components Low-Loss Filter for Mobile Communication						B7744 1842,5 MHz	
Data Sheet		SMD				.,0	
Characteristics							
Operating Tempera Terminating source Terminating load im	impedance:	T = +25 $Z_{\rm S} = 50$ $Z_{\rm L} = 50$	Ω				
			min.	typ.	max.		
Center frequency		f <sub>C</sub>		1842,5	—	MHz	
Maximum insertion	n attenuation 1805,0 1880,	α <sub>max</sub> 0 MHz	_	2,4	3,0	dB	
Amplitude ripple (	o-p) 1805,0 1880,	Δα 0 MHz	_	0,9	1,7	dB	
Input VSWR	1805,0 1880,	0 MHz	_	1,9	2,2		
Output VSWR	1805,0 1880,	0 MHz	_	1,9	2,2		
Attenuation		α					
	0,0 1480, 1480,0 1705, 1705,0 1785, 1920,0 1980, 1980,0 2400, 2400,0 2500, 2500,0 3610, 3610,0 3760, 3760,0 6000,	0 MHz 0 MHz 0 MHz 0 MHz 0 MHz 0 MHz 0 MHz	35 28 12 15 23 30 25 35 25	37 32 16 21 25 37 36 40 34		dB dB dB dB dB dB dB dB dB	

SAW Components							B7744
Low-Loss Filter for Mobile Communication						1842	2,5 MHz
Data Sheet							
Characteristics							
Operating Temperature Range Terminating source impedance Terminating load impedance:		Zs	= -10 to = 50 Ω = 50 Ω				
				min.	typ.	max.	
Center frequency			f <sub>C</sub>	—	1842,5	—	MHz
Maximum insertion attenuati 1805,0	<b>on</b> 1880,0	MHz	$\alpha_{max}$	_	2,4	3,2	dB
Amplitude ripple (p-p) 1805,0	1880,0	MHz	Δα	_	0,9	1,9	dB
Input VSWR 1805,0	1880,0	MHz		_	1,9	2,2	
Output VSWR	1880,0	MHz			1,9	2,2	
	1000,0				1,0	2,2	
Attenuation 0,0 1480,0 1705,0 1920,0	1480,0 1705,0 1785,0 1980,0	MHz MHz MHz MHz	α	35 28 11 15	37 32 15 21		dB dB dB dB
1980,0 2400,0 2500,0		MHz MHz MHz		22 30 25	24 37 36		dB dB dB
3610,0 3760,0	3760,0 6000,0	MHz MHz		35 25	40 34	_	dB dB

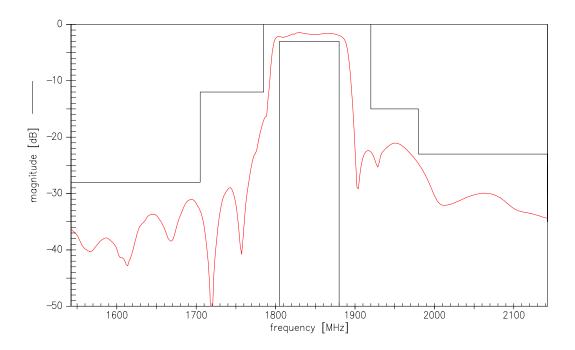
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#### **⊘TDK**

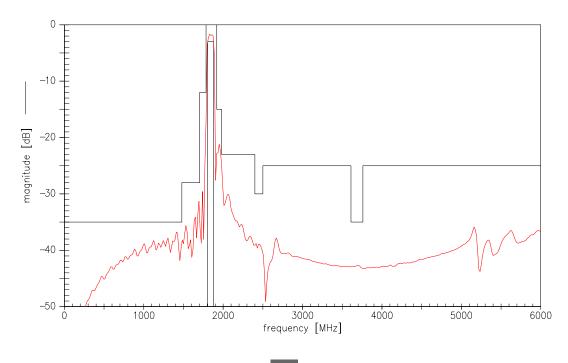
SAW Components Low-Loss Filter for Mobile Communication						B7744 1842,5 MHz	
Data Sheet	r for Mobile Commun				1042	.,5 INITZ	
Characteristics		<b>T</b> 00					
Operating Tempera Terminating source		$\begin{array}{rcl} T &= -30 \\ Z_{\rm S} &= 50 \end{array}$					
Terminating load in	•	$Z_{\rm S} = 50$ $Z_{\rm I} = 50$					
Ũ		L		<b>4</b> • • • •	l	1	
			min.	typ.	max.	N 41 1-	
Center frequency		f <sub>C</sub>	_	1842,5	_	MHz	
Maximum insertio	n attenuation	$\alpha_{max}$					
	1805,0 1880,0	MHz	_	2,4	3,2	dB	
	·						
Amplitude ripple (	p-p) 1805,0 1880,0	Δα MHz		0,9	1,9	dB	
	1605,0 1660,0	IVITIZ		0,9	1,9	UD	
Input VSWR							
	1805,0 1880,0	MHz	_	1,9	2,2		
Output VSWR	1805,0 1880,0	MHz		1,9	2,2		
	1000,0 1000,0			1,5	2,2		
Attenuation		α					
	0,0 1480,0	MHz	35	37	_	dB	
	1480,0 1705,0	MHz	28	32	-	dB	
	1705,0 1785,0	MHz	10	15	-	dB	
	1920,0 1980,0		15	21	_	dB	
	1980,0 2400,0		22	24	-	dB	
	2400,0 2500,0	MHz	30	37	-	dB	
	2500,0 3610,0	MHz	25	36	-	dB	
	3610,0 3760,0	MHz	35	40	-	dB	
	3760,0 6000,0	MHz	25	34		dB	



Transfer function (spec for 25°C)



#### Transfer function (wideband)



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Aug 07, 2003

SAW Components		B7744
Low-Loss Filter for Mo	bile Communication	1842,5 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

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This brochure replaces the previous edition.

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