

SAW filters for mobile communications

Series/Type: B4218

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39192B4218U810		2009-07-31	2009-11-30	2010-02-28

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Туре	Ordering code	Marking and Package	Packing
		according to	according to
B4218	B39192-B4218-U810	C61157-A7-A72	F61074-V8101-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 /+ 85	°C	
Storage temperature range	T _{stg}	– 40 /+ 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
Input power max. 18501910 MHz	P _{IN}	10	dBm	source and load impedance 50 Ω continuous wave

SAW Components								B4218
Low-Loss Filter for Mobile Communication						1865,	0 & 1895,	0 MHz
Data Sheet SMD								
Characteristics of T	c-filter 1							
Operating temperature	e range:		Т	= -30 to	o +85 °C			
Terminating source in	•	:		= 50 Ω				
Terminating load impe	edance:		Z_{L}	= 50 Ω				
					min.	typ.	max.	
Center frequency				f _c	—	1865,0	—	MHz
Maximum insertion a	attenuati	on		α_{max}				
	1850,0	1880,0	MHz		_	1,8	2,5	dB
Amplitude ripple (p-p	•	4000.0		Δα		0.7		
	1850,0	1880,0	MHz		_	0,7	1,4	dB
Input return loss								
input return 1055	1850.0	1880,0	MHz		9,0	10,0		dB
	1000,0	1000,0	1011 12		0,0	10,0		UD I
Output return loss								
•	1850,0	1880,0	MHz		9,0	10,0	_	dB
Attenuation				α				
		1570,0	MHz		25,0	29,0	—	dB
		1580,0	MHz		30,0	32,0		dB
	1580,0		MHz		29,0	32,0		dB
	1780,0	1800,0	MHz		25,0	30,0		dB
	1800,0		MHz MHz		20,0	26,0	_	dB dB
	1930,0 1960,0		MHz		38,0 32,0	45,0 35,0		dВ
	2400,0		MHz		22,0	32,0	_	dB
		4000,0	MHz		15,0	19,0		dB
			MHz		0,0	5,0	_	dB
	, 2	-,-			- , -			
Rx band suppressio	n			α				
	1930,0	1960,0	MHz		38,0	45,0		dB
LO suppression				α				
	2113,0	2174,0	MHz		32,0	35,0		dB

SAW Components					B4218
Low-Loss Filter for Mobile Comm	nunication		1865	,0 & 1895	,0 MHz
Data Sheet	SMD				
Characteristics of Tx-filter 2					
Operating temperature range: Terminating source impedance:	$\begin{array}{l} T &= -30 \\ Z_{\rm S} &= 50 \end{array}$	to +85 °C			
Terminating load impedance:	$\frac{Z_{\rm S}}{Z_{\rm L}} = 50 \Omega$				
		min.	typ.	max.	
Center frequency	f _c	_	1895,0	_	MHz
Maximum insertion attenuation	α_{max}				
1880,01910	,0 MHz	_	1,8	2,5	dB
Amplitude ripple (p-p)	Δα				
1880,01910	,0 MHz	_	0,7	1,4	dB
Input return loss					
1880,01910	,0 MHz	9,0	10,0	_	dB
Output return loss					
1880,01910	,0 MHz	9,0	10,0	_	dB
Attenuation	α				
10,01570	,0 MHz	25,0	29,0		dB
1570,01580	,0 MHz	30,0	32,0		dB
1580,01780		29,0	32,0		dB
1780,01800		25,0	30,0		dB
1800,01830		22,0	29,0		dB
1960,01990		38,0	45,0	<u> </u>	dB
1990,02400		32,0	35,0	_	dB
2400,03000		22,0	30,0		dB
3000,04000		15,0	19,0		dB
5640,05730	,0 MHz	0,0	5,0	_	dB
Rx band suppression	α		4		
1960,01990 LO suppression	0,0 MHz α	38,0	45,0		dB
2113,02174		32,0	35,0	-	dB



Transfer function Tx-filter 1(wideband)



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Transfer function Tx-filter 2(wideband)



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Reflection functions of Tx-filter 1







Reflection functions of Tx-filter 2



SAW Components	B4218
Low-Loss Filter for Mobile Communication	1865,0 & 1895,0 MHz

Data Sheet

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