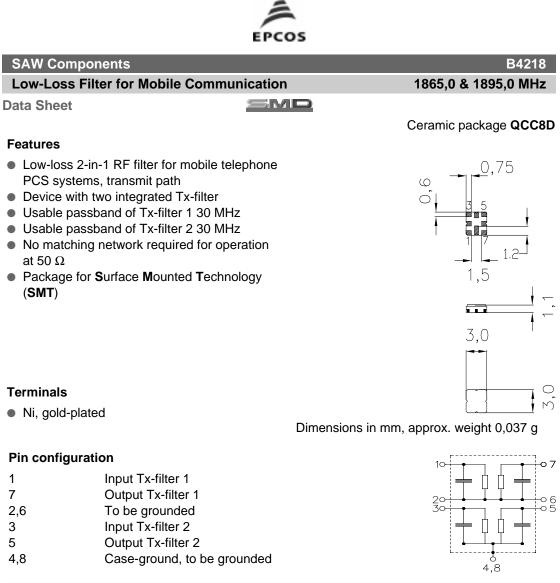


SAW Components

Data Sheet B4218





Туре	Ordering code	Marking and Package according to	Packing 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 _{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								
Characteristics of T	c-filter 1							
Operating temperature range: Terminating source impedance: Terminating load impedance:		$T = -30 \text{ to } +85 \degree\text{C}$ $Z_{\text{S}} = 50 \ \Omega$ $Z_{\text{L}} = 50 \ \Omega$						
					min.	typ.	max.	
Center frequency				f _c	_	1865,0		MHz
Maximum insertion a		on 1880,0	MHz	α_{max}	_	1,8	2,5	dB
Amplitude ripple (p-p	•	1880,0	MHz	Δα	_	0,7	1,4	dB
Input return loss	1850,0	1880,0	MHz		9,0	10,0		dB
Output return loss	1850,0	1880,0	MHz		9,0	10,0		dB
Attenuation	10.0	1570.0	N 41 1-	α	25.0	20.0		dB
		1570,0 1580,0	MHz MHz		25,0 30,0	29,0 32,0		dВ
		1780,0	MHz		29,0	32,0 32,0		dB
	1780,0	1800,0	MHz		25,0 25,0	30,0		dB
	1800,0	1805,0	MHz		20,0	26,0		dB
		1960,0	MHz		38,0	45,0	_	dB
		2400,0	MHz		32,0	35,0		dB
	2400,0	3000,0	MHz		22,0	32,0	_	dB
	3000,0	4000,0	MHz		15,0	19,0		dB
	5550,0	5640,0	MHz		0,0	5,0		dB
Rx band suppression	Rx band suppression			α				
	1930,0	1960,0	MHz		38,0	45,0		dB
LO suppression	2113,0	2174,0	MHz	α	32,0	35,0		dB

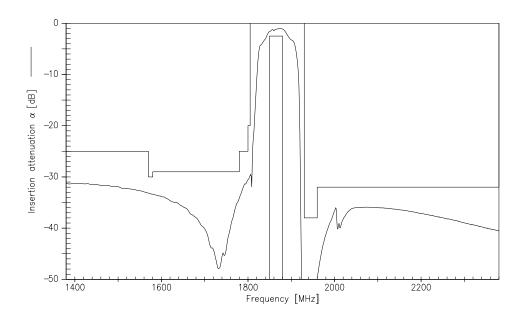


SAW Components						B4218		
Low-Loss Filter for Mobile Communication						1865	,0 & 1895	,0 MHz
Data Sheet			S					
Characteristics of Tx	-filter 2							
Operating temperature	e range:		Т	= -30 to	o +85 °C			
Terminating source im	•	:	$\begin{array}{l} Z_{\rm S} &= 50 \ \Omega \\ Z_{\rm L} &= 50 \ \Omega \end{array}$					
Terminating load impe	edance:							
					min.	typ.	max.	
Center frequency				f _c		1895,0		MHz
Maximum insertion a				$lpha_{max}$				
	1880,0	1910,0	MHz		—	1,8	2,5	dB
• • • • • • • •	`							
Amplitude ripple (p-p		1910,0	MHz	Δα		0.7	1 1	dB
	1000,0	1910,0				0,7	1,4	uБ
Input return loss								
mpariotannioco	1880.0	1910,0	MHz		9,0	10,0		dB
	,.				-,-			
Output return loss								
	1880,0	1910,0	MHz		9,0	10,0	—	dB
Attenuation				α				
		1570,0	MHz		25,0	29,0		dB
	1570,0 1580,0	1580,0 1780,0	MHz MHz		30,0 29,0	32,0 32,0		dB dB
		1780,0	MHz		29,0 25,0	32,0 30,0	_	dВ
		1830,0	MHz		22,0	29,0		dB
		1990,0	MHz		38,0	45,0		dB
	1990,0	2400,0	MHz		32,0	35,0		dB
	2400,0	3000,0	MHz		22,0	30,0	_	dB
		4000,0	MHz		15,0	19,0	—	dB
	5640,0	5730,0	MHz		0,0	5,0	—	dB
Dy hand armine '	_							
Rx band suppression	n 1960,0	1990,0	MHz	α	20 A	15.0		dB
LO suppression	1900,0	1990,0	IVITIZ	α	38,0	45,0		UD
	2113.0	2174,0	MHz	ι.	32,0	35,0		dB
	,0	,0			02,0	00,0		

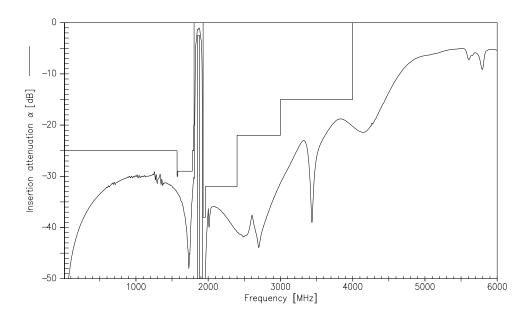
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Transfer function Tx-filter 1



Transfer function Tx-filter 1(wideband)

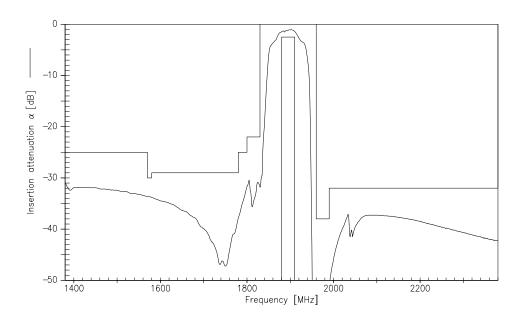


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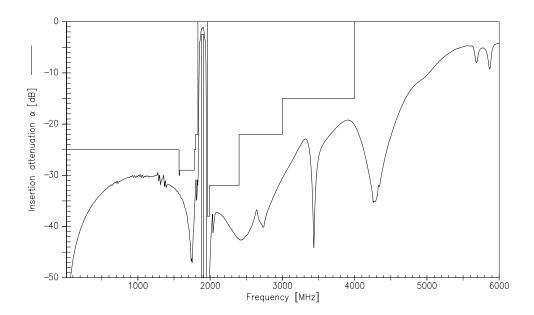
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Transfer function Tx-filter 2



Transfer function Tx-filter 2(wideband)

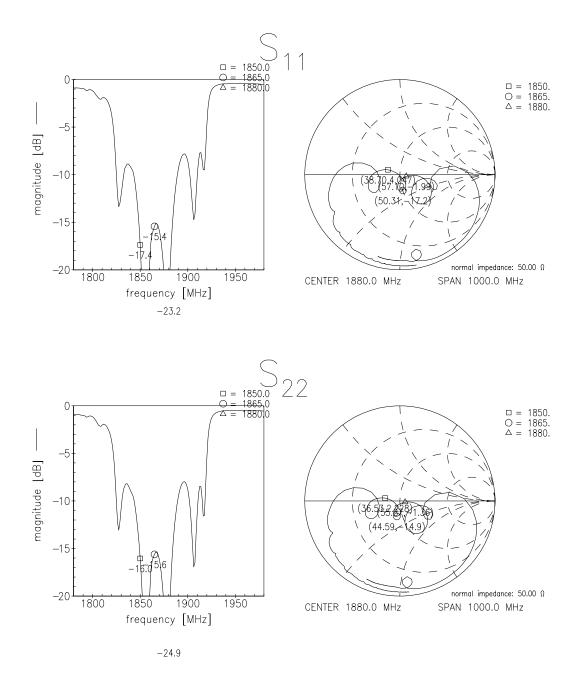


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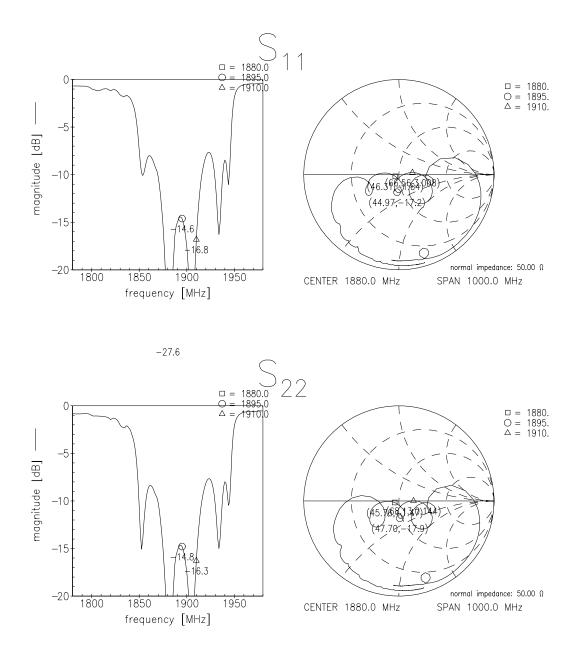


Reflection functions of Tx-filter 1





Reflection functions of Tx-filter 2



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SAW Components		B4218
Low-Loss Filter for Mobile Commu	unication	1865,0 & 1895,0 MHz
Data Sheet	SMD	

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Jan 14, 2002