

# SAW Components

Data Sheet B3511





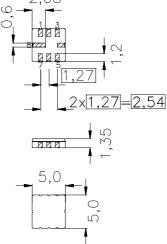
W Components		B3511
w-Loss Filter for Telen	natics Application	1865,0 & 1895,0 MHz
Sheet	SMD	

# Features

SAV Low Data

- Low-loss 2-in-1 RF filter for mobile telephone PCS systems, transmit path
- Device with two integrated Tx-filter
- Usable passband of Tx-filter 1 30 MHz
- Usable passband of Tx-filter 2 30 MHz
- No matching network required for operation at 50  $\Omega$
- Package for Surface Mounted Technology (SMT)
- Extended temperature range for automotive application





### Terminals

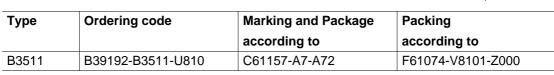
• Ni, gold-plated

Dimensions in mm, approx. weight 0,037 g

#### **Pin configuration**

1	Input Tx-filter 1
7	Output Tx-filter 1
2,6	To be grounded
3	Input Tx-filter 2
5	Output Tx-filter 2

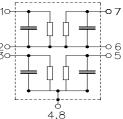
4,8 Case-ground, to be grounded



Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	Т	- 40 /+ 85	°C	
Storage temperature range	T <sub>stg</sub>	– 40 /+ 85	°C	
DC voltage	V <sub>DC</sub>	0	V	
Input power max. 18501910 MHz	P <sub>IN</sub>	10	dBm	source and load impedance 50 $\Omega$ continuous wave





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Low-Loss Filter for Telematics Application				1865,0 & 1895,0 MHz		
Data Sheet						
Characteristics of Tx-filter 1						
Operating temperature range: Terminating source impedance: Terminating load impedance:		$T = -40 \text{ t}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$				
			min.	typ.	max.	
Center frequency		f <sub>c</sub>	_	1865,0	—	MHz
Maximum insertion attenuation 1850,0188		α <sub>max</sub> /Hz		1,8	3,0	dB
1050,0100	50,0 N		_	1,0	3,0	UD
Amplitude ripple (p-p) 1850,0 …188	30,0 N	Δα /Hz	_	0,7	1,7	dB
Input return loss 1850,0 …188	30,0 N	ЛНz	9,0	10,0	_	dB
Output return loss 1850,0188	30,0 N	ЛНz	9,0	10,0	_	dB
Attenuation		α				
10,0177		/Hz	24,0	26,0		dB
1770,0180		/Hz	26,0	30,0		dB
1930,0196 2113,0217	,	/IHz /IHz	36,0 32,0	41,0 34,0		dB dB
2113,0217 2200,0300		лнz ЛНz	32,0 20,0	34,0 26,0	_	dВ





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Characteristics of Tx-filter 2							
Operating temperature range: Terminating source impedance: Terminating load impedance:		= -40 to = 50 Ω = 50 Ω					
			min.	typ.	max.		
Center frequency		f <sub>c</sub>		1895,0		MHz	
Maximum insertion attenuation 1880,01910,0	MHz	$\alpha_{max}$	_	1,8	3,0	dB	
Amplitude ripple (p-p) 1880,01910,0	MHz	Δα	_	0,7	1,7	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					
10,0 1800,0	MHz		24,0	26,0		dB	
1800,01830,0 1960,01990,0	MHz MHz		26,0 36,0	29,0 41,0		dB dB	
2113,02174,0	MHz		36,0 32,0	41,0 34,0		dВ	
2113,02174,0 2200,03000,0	MHz		32,0 20,0	26,0	_	dB	



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## Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE PD P.O. Box 80 17 09, D-81617 München

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Mar 17, 2005