# Qualcom

RF360 Europe GmbH

### **SAW Components**

SAW Filter

TD-SCDMA 1900

Series/type: B9483 Ordering code: B39192B9483P810

Date: Version: October 13, 2016 2.1

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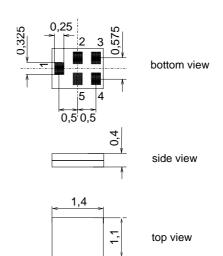
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### **公TDK**

SAW Components		B9483
SAW Filter		1900.0 MHz
Data sheet	SMD	
Application		
<ul> <li>Low-loss RF filter for mobile telessystems.</li> <li>Unbalanced to balanced operation</li> <li>Low amplitude ripple</li> <li>Usable passband 40MHz</li> <li>Impedance 50 Ω at input and 100</li> <li>No matching network</li> </ul>	on	a 4500

#### Features

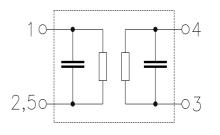
- Package size 1.4 x 1.1 x 0.4 mm<sup>3</sup>
- RoHS compatible
- Approx. weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitive Level 3



#### **Pin configuration**

1	Input unbalanced

- 3,4 Output, balanced
- 2,5 To be grounded



Please read *cautions and warnings and important notes* at the end of this document.

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### **☆TDK**

SAW Components					
SAW Filter					1900
Data sheet	SM				
Characteristics					
Temperature range for specification:			to +85 °C		
Terminating source impedance: Terminating load impedance:	$Z_{\rm S} = Z_{\rm I} =$	50 Ω 100 Ω			
reminating load impedance.	2L -	100 32			
		min.	typ. @ 25 °C	max.	
Center frequency	f <sub>C</sub>	_	1900.0	_	MHz
Maximum insertion attenuation	$\alpha_{max}$				
	Hz	—	1.8	2.1	dB
Amplitude ripple (p-p)	Δα				
	Hz	_	0.6	1.0	dB
Input VSWR 1880.0 1920.0 M	Hz	_	1.8	2.1	
			1.0	2.1	
Output VSWR					
1880.0 1920.0 M	Hz	—	1.8	2.1	
Common mode rejection ratio					
-	Hz	20	23	—	dB
Attomustics					
Attenuation 0.1 1795.0 M	α Hz	30	40	_	dB
	Hz	25	32	_	dB
	Hz	20	23	_	dB
	Hz	17	20	_	dB
	Hz	15	25	_	dB
2025.0 6000.0 M	Hz	25	31	_	dB

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### **☆TDK**

SAW Components SAW Filter	-	-	-	B9483 1900.0 MHz
Data sheet		SMI	2	
Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	$V_{DC}$	3	V	
ESD voltage	$V_{\text{ESD}}$	50 <sup>1)</sup>	V	machine model, 1 pulse
Input Power at				
1880.01920.0MHz	P <sub>IN</sub>	12	dBm	continuous wave

<sup>1)</sup> acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

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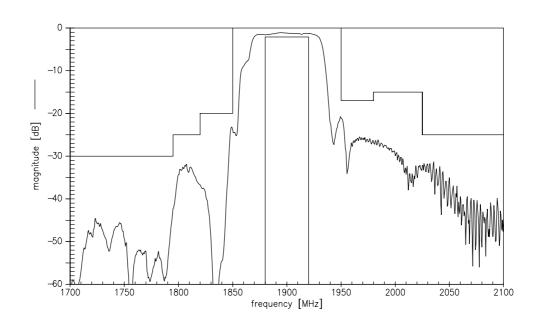


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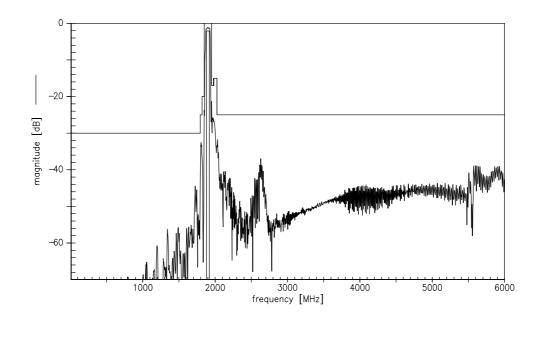
### **公TDK**



Transfer function (narrowband)



#### Transfer function (wideband)



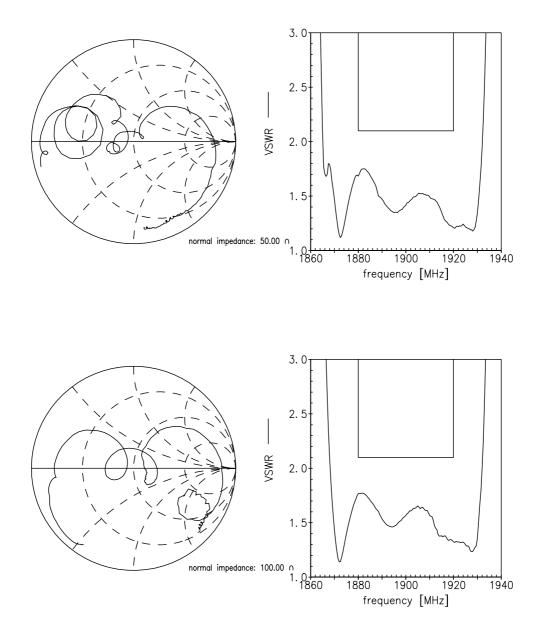
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### **☆TDK**

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SAW Filter		1900.0 MHz
Data sheet	SMD	

#### S<sub>11</sub> function



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**B9483** 

1900.0 MHz

**SAW Components** 

#### SAW Filter

Data sheet

SMD

#### References

Туре	B9483
Ordering code	B39192B9483P810
Marking and package	C61157-A8-A14-4-27
Packaging	F61074-V8237-Z000
Date codes	L_1126
S-parameters	B9483_NB_UN.s3p, B9483_WB_UN.s3p see file header for port/pin assignment table
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8 <sup>th</sup> , 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
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