Qualcomm

RF360
Europe GmbH

SAW Components

SAW Filter

TD-SCDMA 1900

Series/type:	B9483
Ordering code:	B39192B9483P810
Date:	October 13, 2016
Version:	2.1

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EPCOS AG is a TDK Group Company.

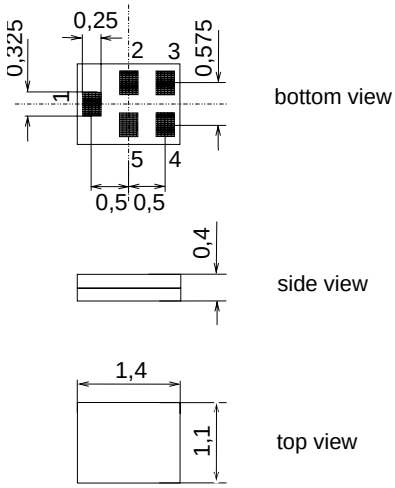
Data sheet SMD

Application

- Low-loss RF filter for mobile telephone TD-SCDMA systems.
- Unbalanced to balanced operation
- Low amplitude ripple
- Usable passband 40MHz
- Impedance 50 Ω at input and 100 Ω balanced output
- No matching network

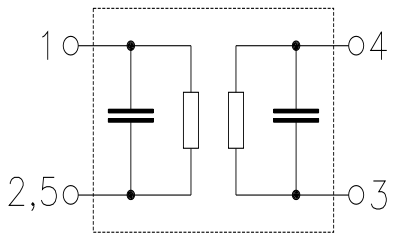
Features

- Package size 1.4 x 1.1 x 0.4 mm³
- RoHS compatible
- Approx. weight 0.003 g
- Package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- **E**lectrostatic **S**ensitive **D**evice (**ESD**)
- **M**oisture **S**ensitive **L**evel 3



Pin configuration

■	1	Input unbalanced
■	3,4	Output, balanced
■	2,5	To be grounded



Data sheet SMD

Characteristics

Temperature range for specification: T = -30 ˚C to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 100 Ω

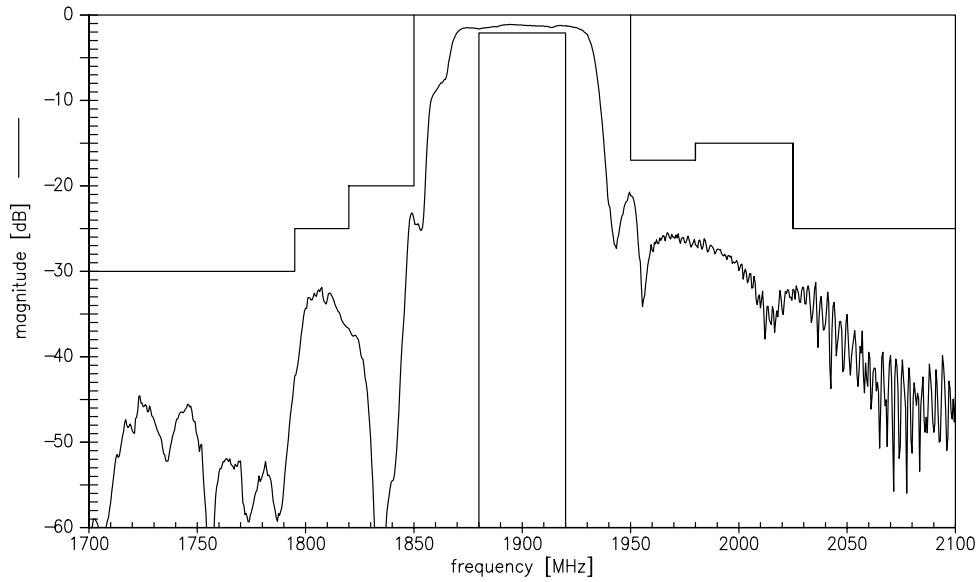
		min.	typ. @ 25 ˚C	max.	
Center frequency	f_C	—	1900.0	—	MHz
Maximum insertion attenuation	α_{max}				
1880.0 ... 1920.0 MHz		—	1.8	2.1	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1880.0 ... 1920.0 MHz		—	0.6	1.0	dB
Input VSWR					
1880.0 ... 1920.0 MHz		—	1.8	2.1	
Output VSWR					
1880.0 ... 1920.0 MHz		—	1.8	2.1	
Common mode rejection ratio					
1880.0 ... 1920.0 MHz		20	23	—	dB
Attenuation	α				
0.1 ... 1795.0 MHz		30	40	—	dB
1795.0 ... 1820.0 MHz		25	32	—	dB
1820.0 ... 1850.0 MHz		20	23	—	dB
1950.0 ... 1980.0 MHz		17	20	—	dB
1980.0 ... 2025.0 MHz		15	25	—	dB
2025.0 ... 6000.0 MHz		25	31	—	dB

Maximum ratings

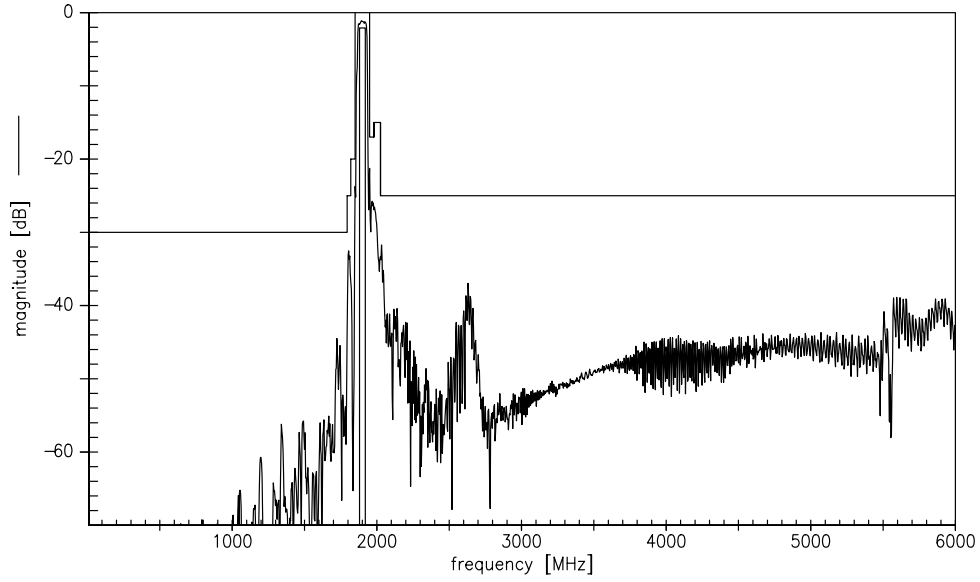
Operable temperature range	T	–40/+85	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50 [1)]	V	machine model, 1 pulse
Input Power at 1880.0...1920.0MHz	P_{IN}	12	dBm	continuous wave

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

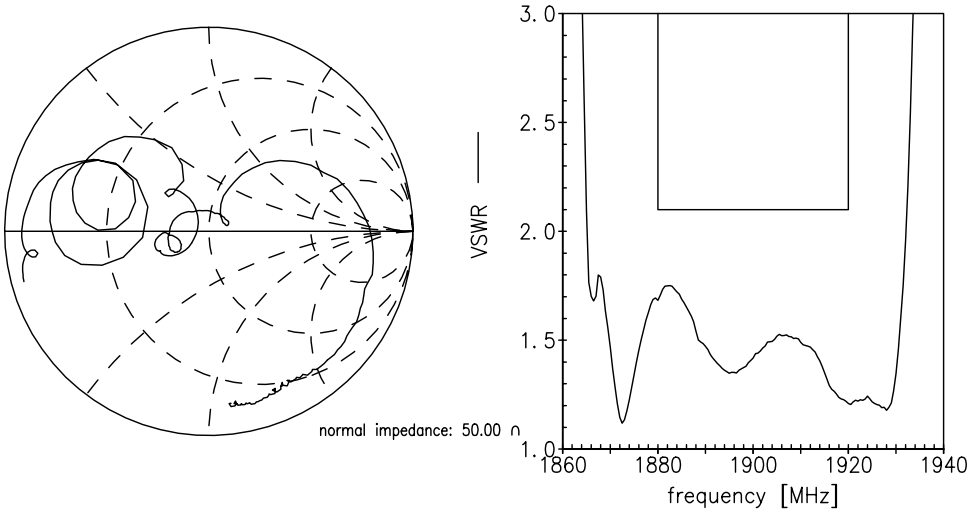
Transfer function (narrowband)

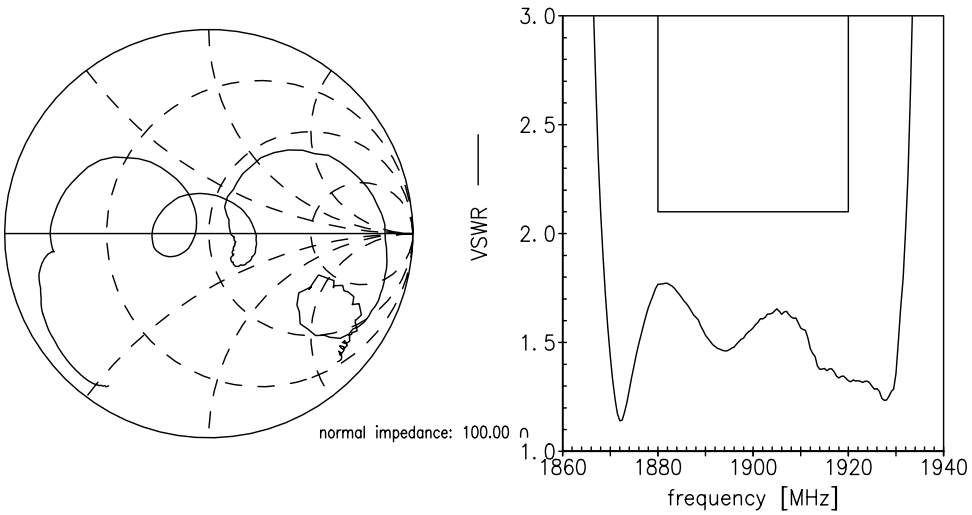


Transfer function (wideband)



S_{11} function





References

Type	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 8th, 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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