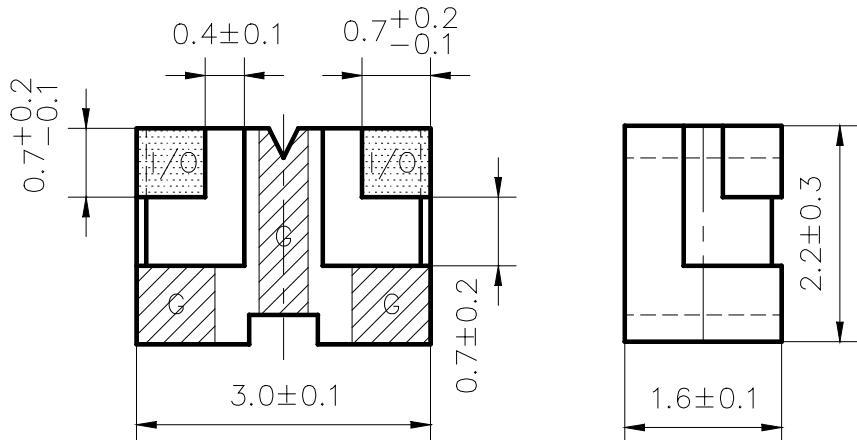


Features

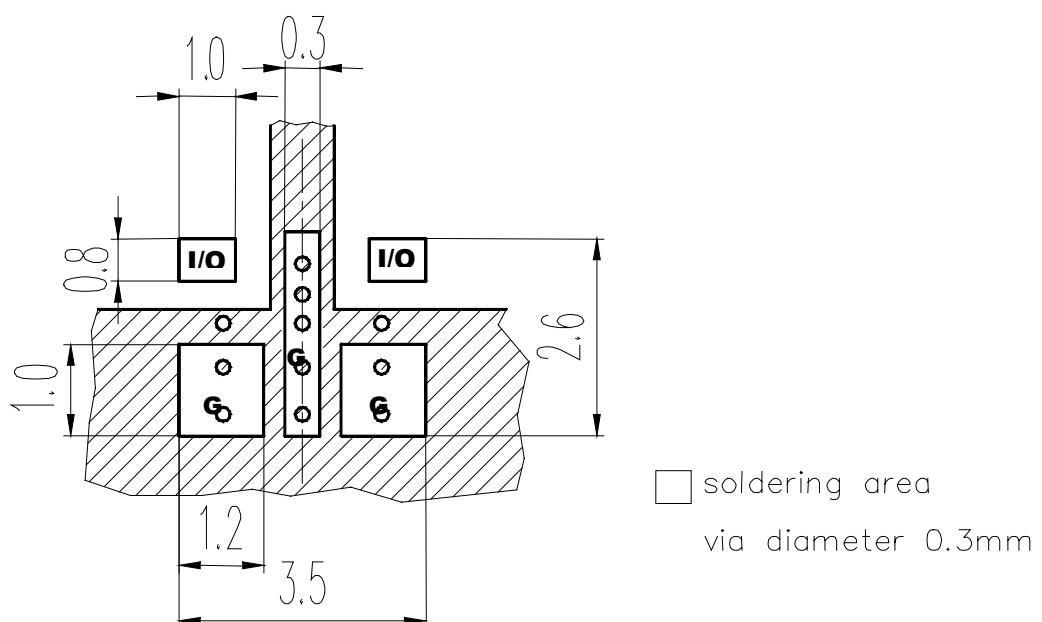
- SMD filter consisting of coupled resonators with stepped impedances
- $\text{MgTiO}_3 - \text{CaTiO}_3$ ($\epsilon_r = 21$ / $TC_f = 0 \pm 10 \text{ ppm/K}$) with a coating of copper ($10\mu\text{m}$) and tin ($>5\mu\text{m}$)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

Index

Page 2	<ul style="list-style-type: none"> ● Component drawing ● Recommended footprint
Page 3	<ul style="list-style-type: none"> ● Characteristics ● Maximum ratings ● Typical passband characteristic
Page 4	<ul style="list-style-type: none"> ● Processing information ● Soldering requirements ● Delivery mode

Preliminary Data Sheet
Component drawing


View from below onto the solder terminals and view from beside

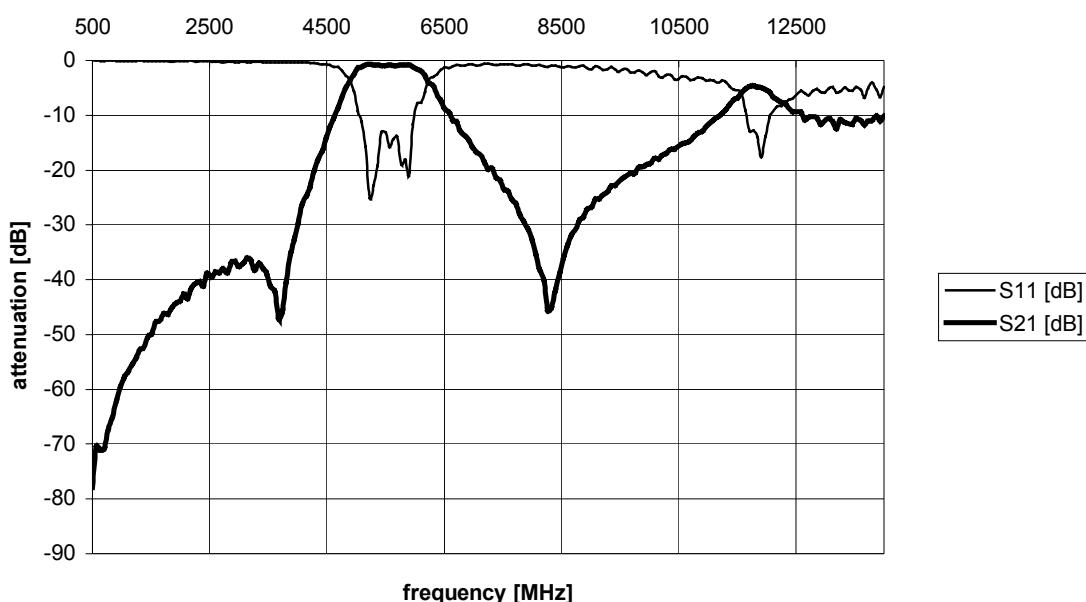
Recommended footprint


Microwave Ceramics and Modules
Filter
2 – Pole Filter for WLAN 5GHz / [5150 – 5850] MHz
B69842N5507C700
Preliminary Data Sheet
Characteristics

			min.	typ.	max.	
Center frequency	f_c				5.5	GHz
Insertion loss [5150 – 5850] MHz	α_{IL}		0.9	1.0	1.0	dB
Passband [5150 – 5850] MHz	B	700				MHz
Amplitude ripple (peak - peak) [5150 – 5850] MHz	$\Delta\alpha$					dB
Standing wave ratio [5150 – 5850] MHz	SWR		1.8	2.0	2.0	
Impedance	Z		50			Ω
Power	P			1.0	1.0	W
at DC to 2170 MHz	α	40	45			dB
at 2400 to 2500 MHz		36	40			dB
at 2400 to 3900 MHz		30	38			dB
at 6800 MHz		10	14			dB

Maximum ratings

IEC climatic category (IEC 68-1)	- 40/+ 90/56	
Operating temperature	T_{op} -40 / +85	°C

Typical passband characteristic


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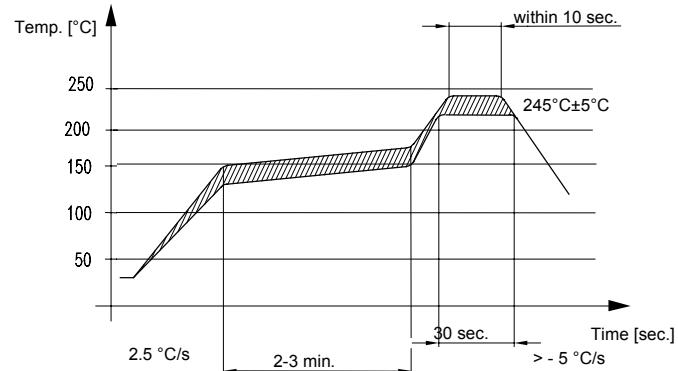
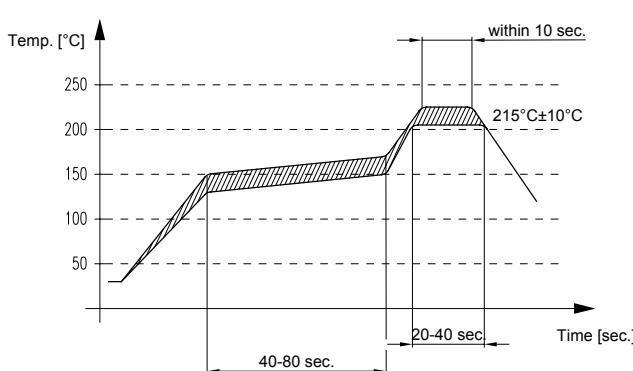
Preliminary Data Sheet
Processing information

ZNr.: 577 (FILT95_2)

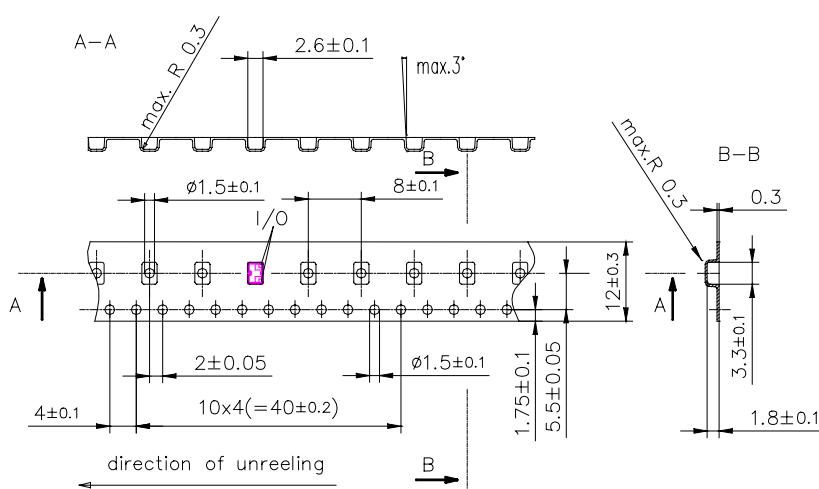
- Wettability acc. to IEC 68-2-58: $\geq 75\%$ (after aging)

Soldering requirements

	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	260 (max. 2 sec.) 250 (max. 10 sec.)	°C °C

Recommended soldering conditions (infrared):

Delivery mode

- Blister tape acc. to IEC 286-3, PS, grey
- Pieces/tape: 4000



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The information contained in this data sheet describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

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