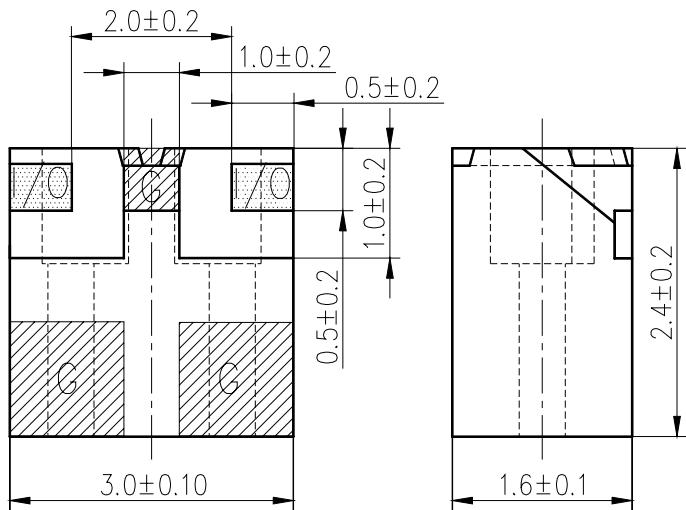


## **Features**

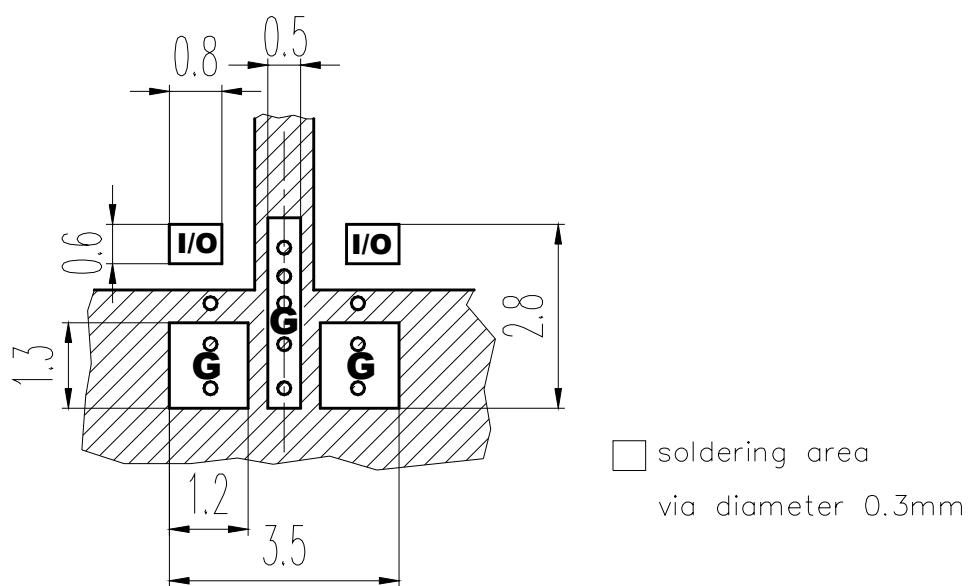
- SMD filter consisting of coupled resonators with stepped impedances
- $\text{MgTiO}_3 - \text{CaTiO}_3$  ( $\epsilon_r = 21$  /  $TC_f = 0 \pm 10 \text{ ppm/K}$ ) with a coating of copper ( $10\mu\text{m}$ ) and tin ( $>5\mu\text{m}$ )
- Excellent reflow solderability, no migration effect due to copper/tin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

## **Index**

Page 2	<ul style="list-style-type: none"><li>● Component drawing</li><li>● Recommended footprint</li></ul>
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Page 4	<ul style="list-style-type: none"><li>● Processing information</li><li>● Soldering requirements</li><li>● Delivery mode</li></ul>

**Preliminary Data Sheet**
**Component drawing**


View from below onto the solder terminals and view from beside

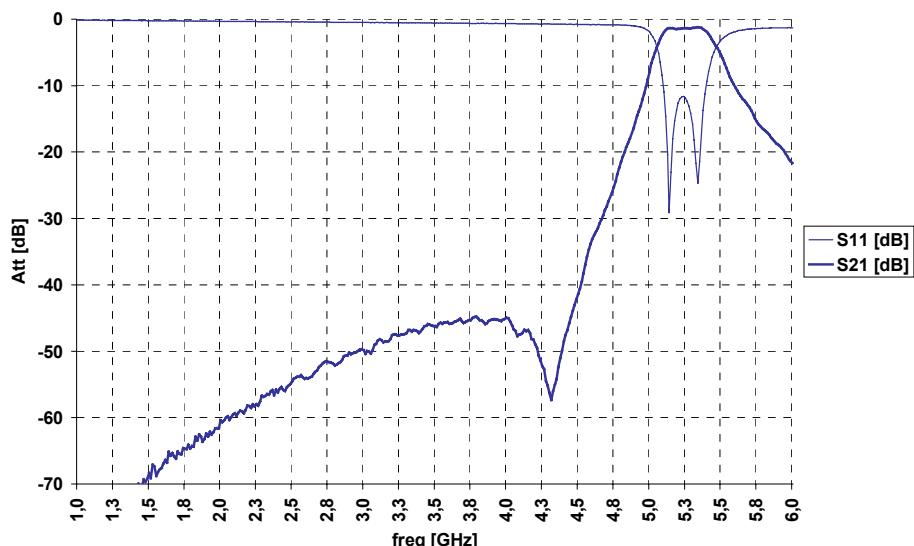
**Recommended footprint**


**Preliminary Data Sheet**
**Characteristics**

		min.	typ.	max.	
Center frequency	$f_c$	-	5250	-	MHz
Insertion loss	$\alpha_{IL}$		1.0	1.2	dB
Passband	$B$	200			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$			0.8	dB
Standing wave ratio	$SWR$		1.5	2.0	
Impedance	$Z$		50		$\Omega$
Power	$P$			1.0	W
Attenuation	$\alpha$				
at DC to 1990 MHz		55	60		dB
at 1990 to 2170 MHz		53	58		dB
at 2400 to 2500 MHz		50	55		dB
at 4500 MHz		35	40		dB
at 6.5 to 10 GHz		20	25		dB

**Maximum ratings**

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

**Typical passband characteristic**


## Microwave Ceramics and Modules

Filter

### 2 Pole Filter for W-LAN 5GHz / [5.15-5.35] Band

B69842N5257C200

#### Preliminary Data Sheet

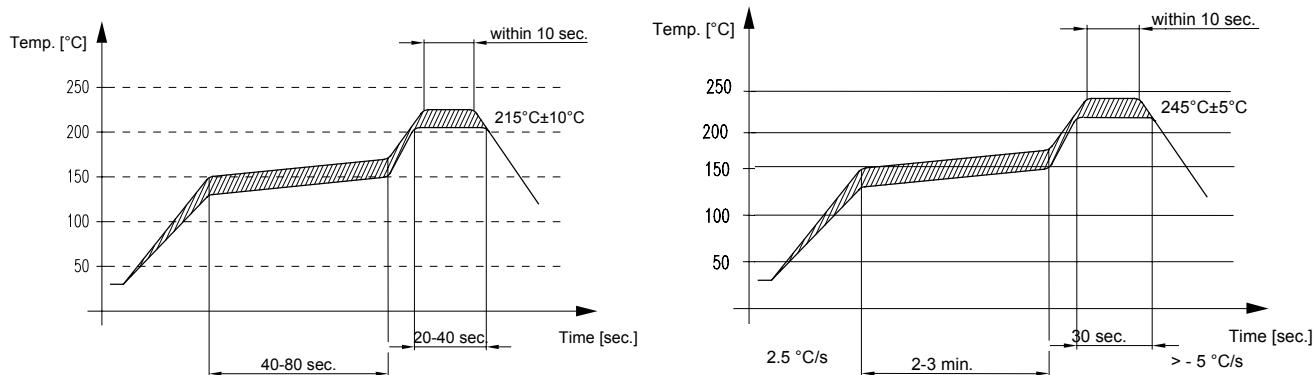
#### Processing information

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

#### Soldering Requirements

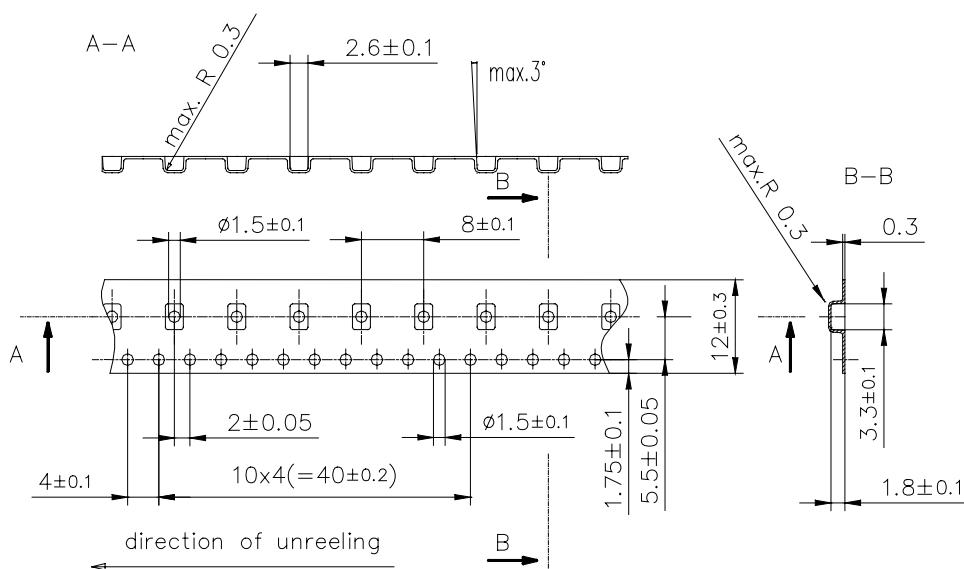
	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	260 (max. 2 sec.) 250 (max. 10 sec.)	°C °C

#### 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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