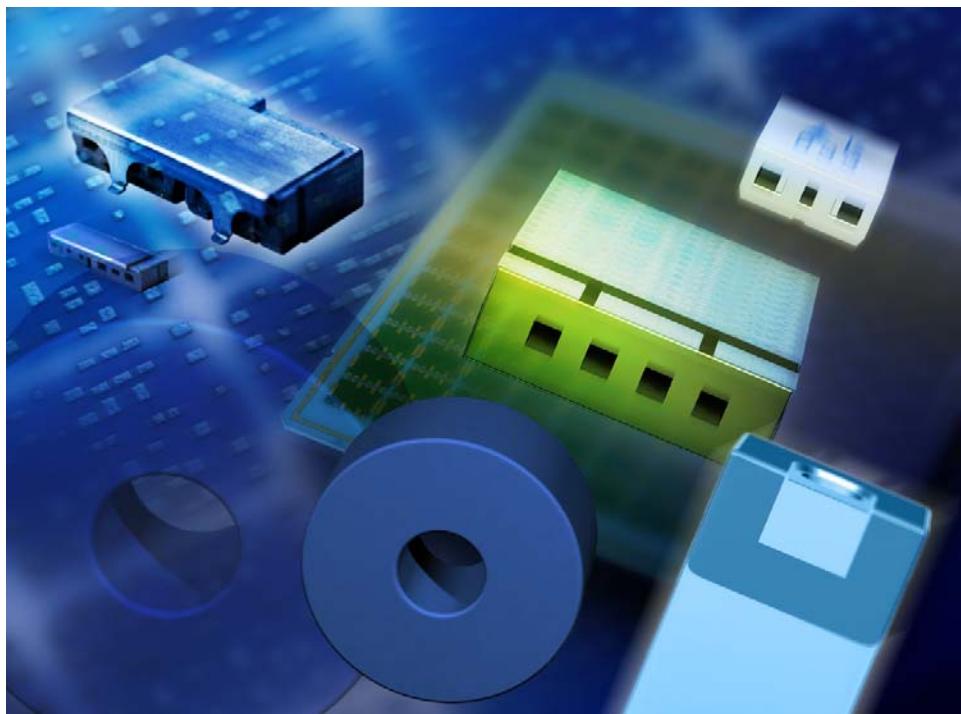


**Datasheet**



**Features**

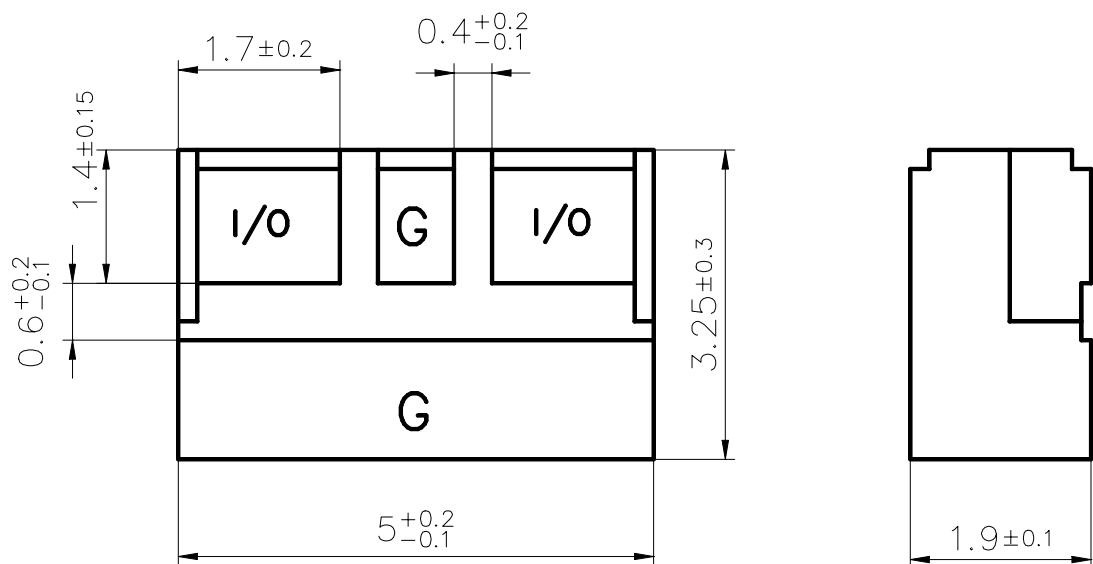
- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO<sub>3</sub> ( $\epsilon_r = 88$  /  $TC_f = 0 \pm 10$  ppm/K) with a coating of copper (10 $\mu$ m) and tin (>5 $\mu$ m)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

**Index**

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

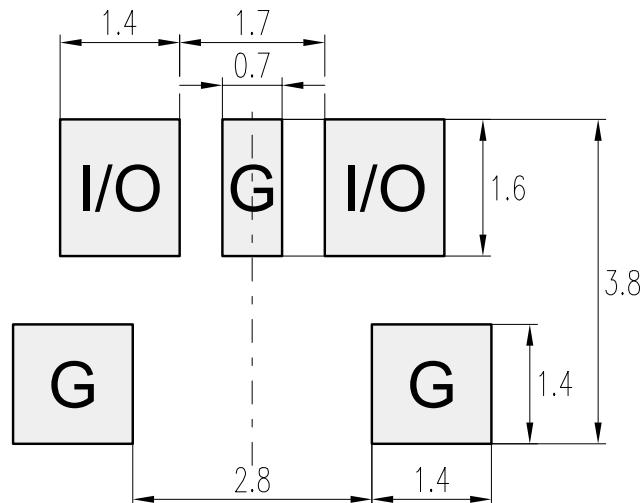
**Datasheet**

**Component drawing**



View from below onto the solder terminals and view from beside

**Recommended footprint**



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**Characteristics**

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**Microwave Ceramics and Modules**  
**2-Pole Filter for W-LAN**

**Product type**

**B69812N2457D501**

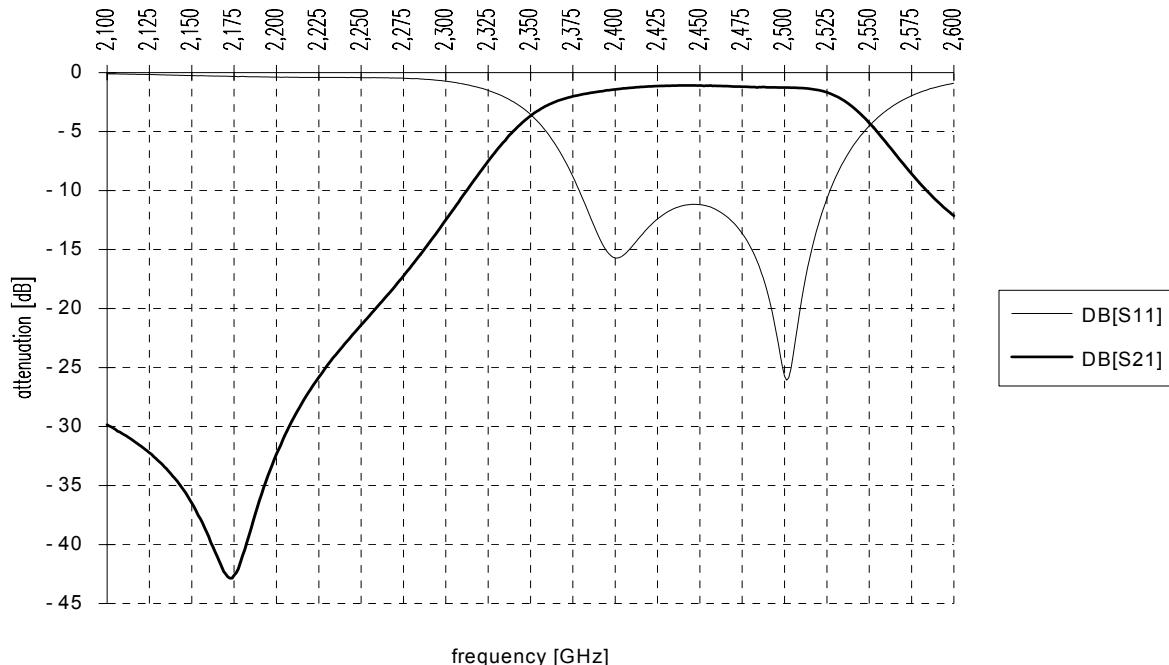
**Datasheet**

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
Center frequency	$f_C$	-	2.4415	-	GHz
Insertion loss	$\alpha_{IL}$		0.6	1.3	dB
Passband	$B$	83			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		0.4	0.8	dB
Standing wave ratio	$SWR$		1.5	2.0	
Impedance	$Z$		50		$\Omega$
Attenuation at 2150 MHz	$\alpha$	35	40		dB

**Maximum ratings**

IEC climatic category (IEC 68-1)	- 40/+ 90/56	
Operating temperature	$T_{op}$ - 20 / + 85	°C

**Typical passband characteristic**



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**Processing information**

**ZNr.: 368 (FILT95\_2)**

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**Microwave Ceramics and Modules**  
**2-Pole Filter for W-LAN**

**Product type**

**B69812N2457D501**

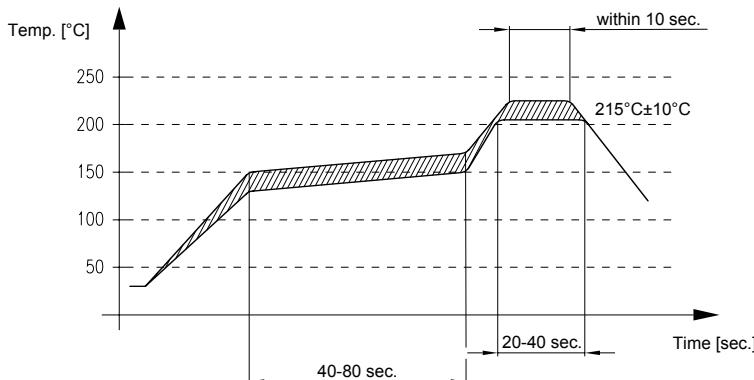
**Datasheet**

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

**Soldering requirements**

Soldering type	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	°C °C

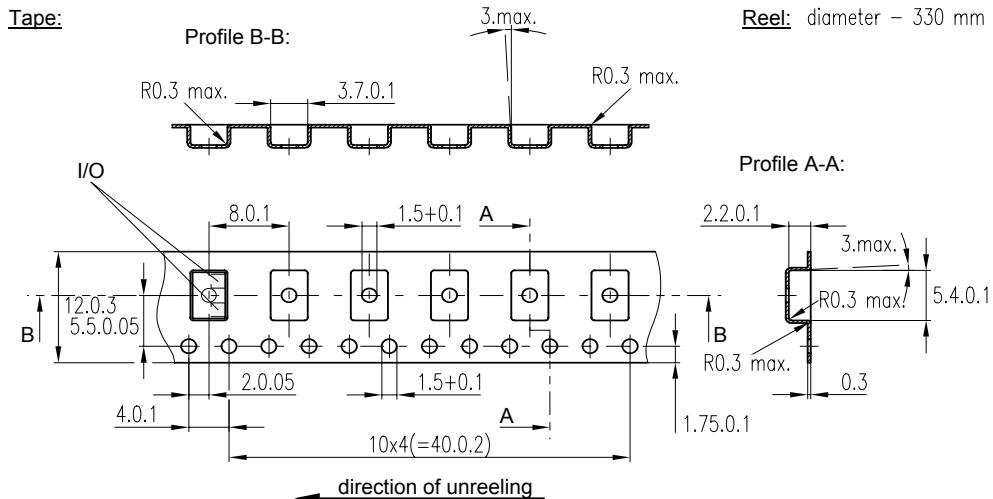
**Recommended soldering conditions (infrared):**



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**Delivery mode**

- Blister tape to IEC 286-3, polyester, grey
- Pieces/tape: 3000



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