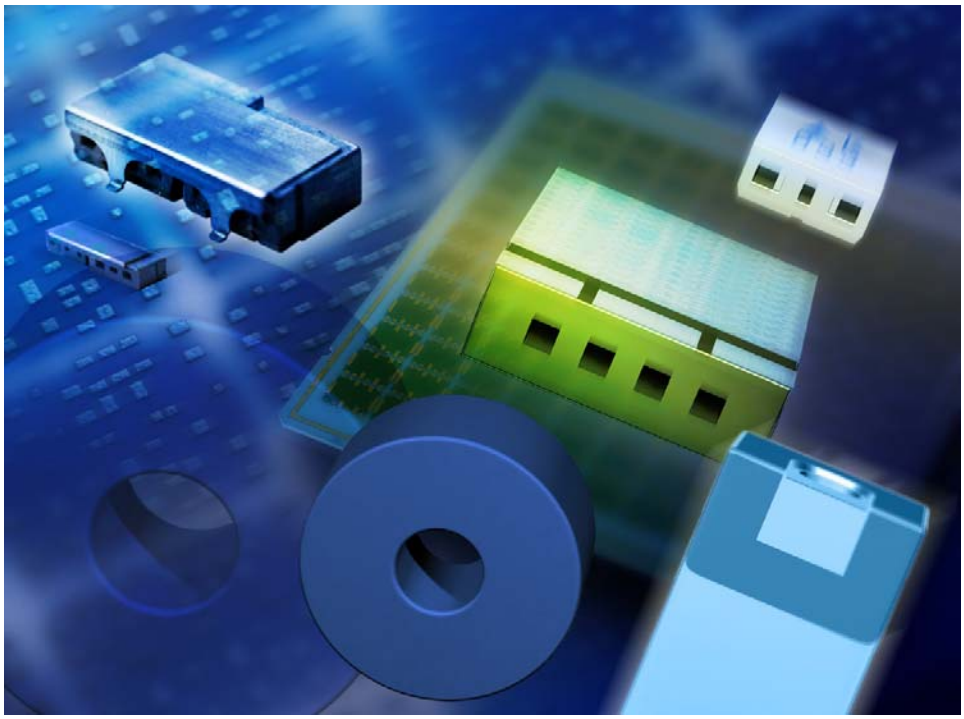
EPCOS

Microwave Ceramics and Modules | **Product type**

2-Pole Filter for W-LAN | **B69812N2457D501**

Datasheet



Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO_3 (ε_r = 88 / TC_f =0±10 ppm/K) with a coating of copper (10µm) and tin (>5µm)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

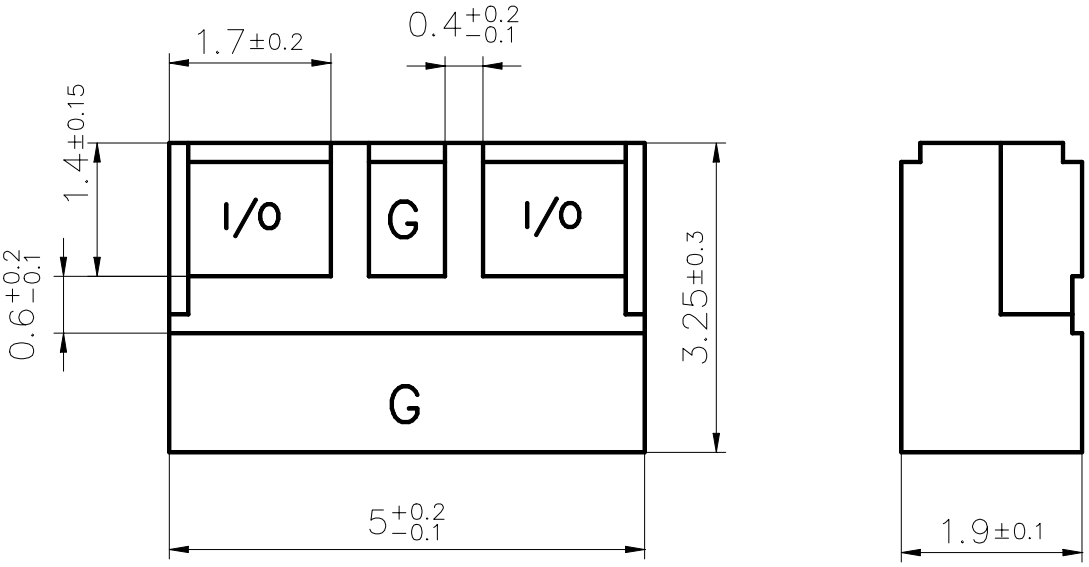
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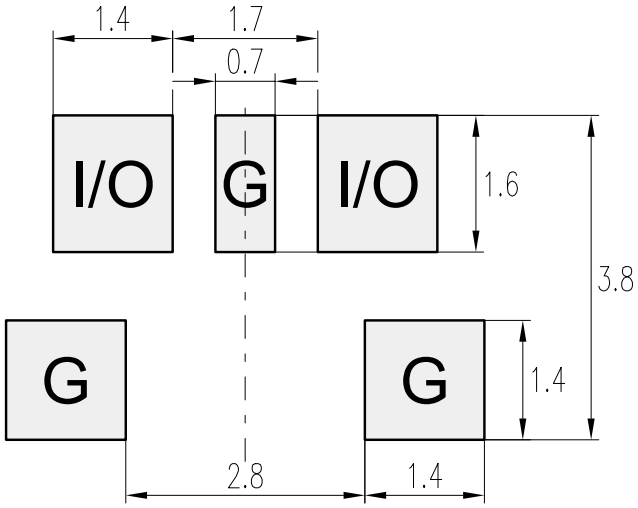
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Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



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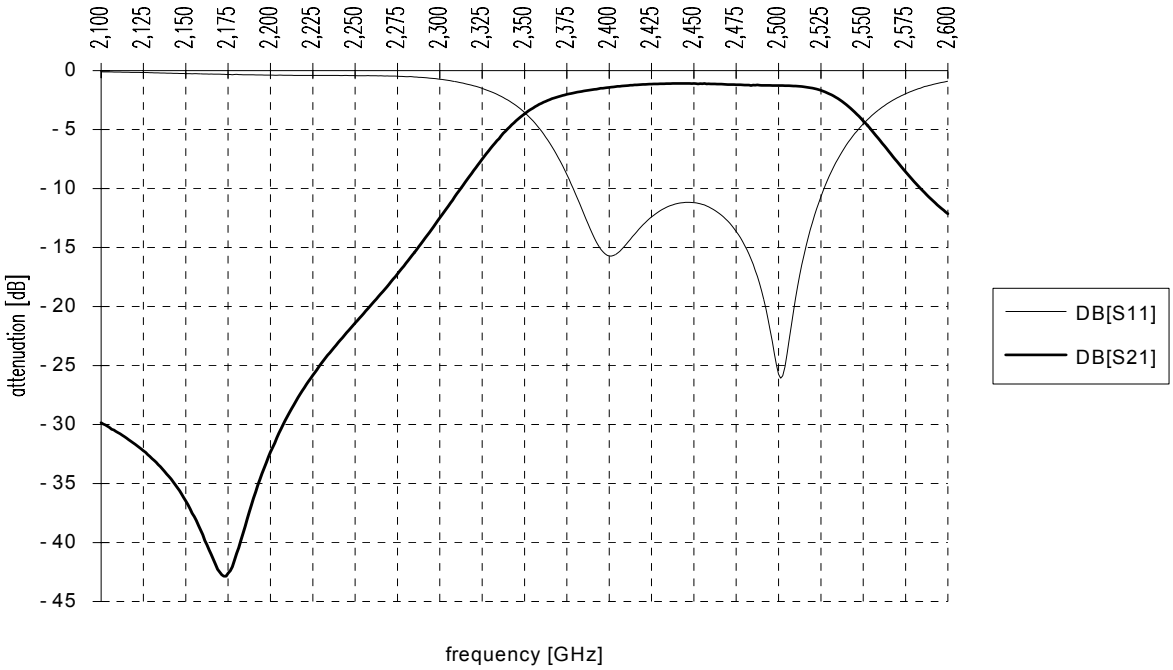
Characteristics

		min.	typ.	max.	
Center frequency	f_C	-	2.4415	-	GHz
Insertion loss	α_{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		Ω
Attenuation at 2150 MHz	α	35	40		dB

Maximum ratings

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

Typical passband characteristic



S2I211.DOC

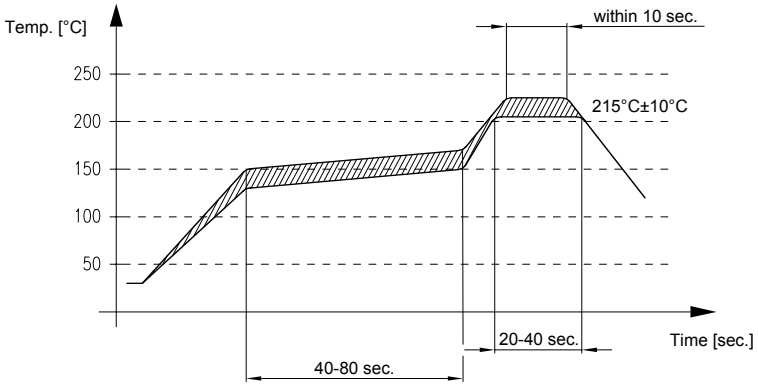
Processing information **ZNr.: 368 (FILT95_2)**

- Wettability to IEC 68-2-58: ≥ 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):

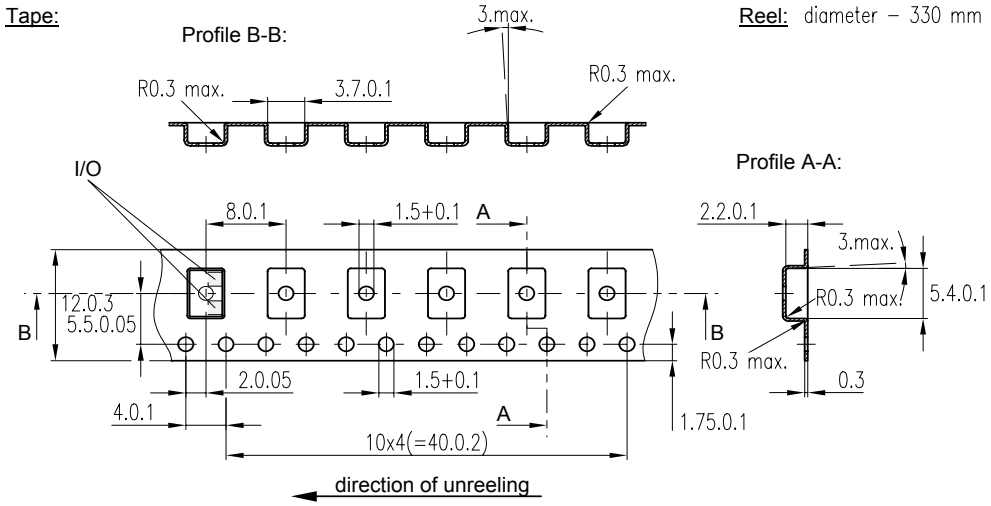


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Delivery mode

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

Tape:



Reel: diameter – 330 mm

TAPS3I21.DOC

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