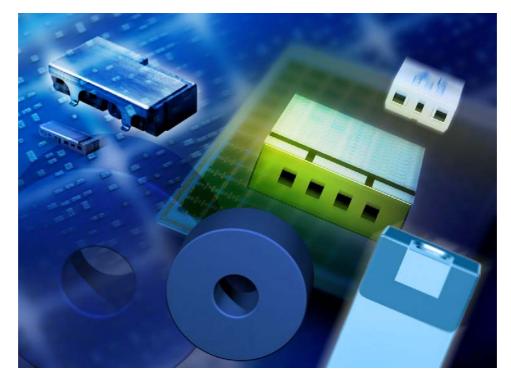


Filter

2 Pole Filter for W-LAN 5GHz / [5.725-5.875] Band

B69842N5807A150

Preliminary Data Sheet



Features

- SMD filter consisting of coupled resonators with stepped impedances
- MgTiO₃ CaTiO₃ (ε_r = 21 / TC_f =0±10 ppm/K) with a coating of copper (10 μ m) and tin (>5 μ m)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

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 - Recommended footprint
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 - Typical passband characteristic
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 - Processing information
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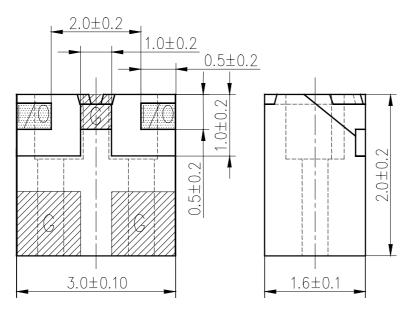
Filter

2 Pole Filter for W-LAN 5GHz / [5.725-5.875] Band

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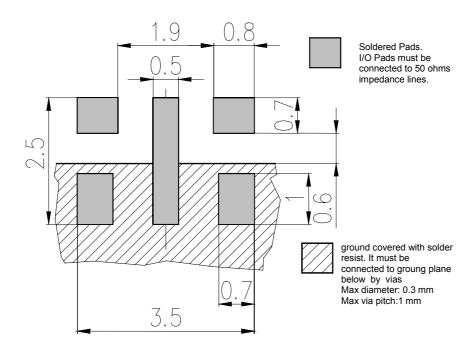
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Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



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Filter

2 Pole Filter for W-LAN 5GHz / [5.725-5.875] Band

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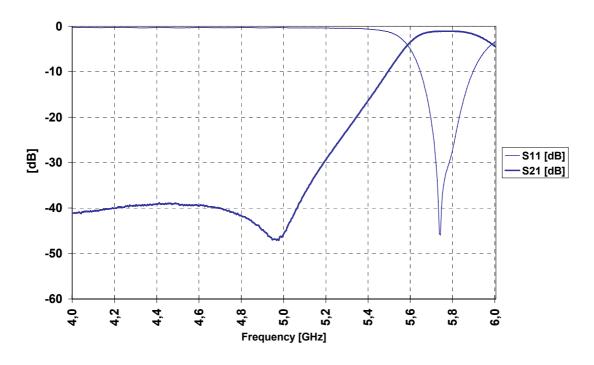
Characteristics

	min.	typ.	max.	
Center frequency f _C	-	5.8	-	GHz
Insertion loss α_{IL}		1.1	1.3	dB
Passband B	150			MHz
Standing wave ratio SWR		1.5	2.0	
Impedance Z		50		Ω
Power P			1.0	W
Attenuation				
at DC to 1990 MHz	55	60		dB
at 3300 MHz	40	46		dB
at 5000 MHz	40	45		dB
at 5425 MHZ	12	15		dB
at 6175 MHz	8	12		dB
at 6800 MHz	25	27		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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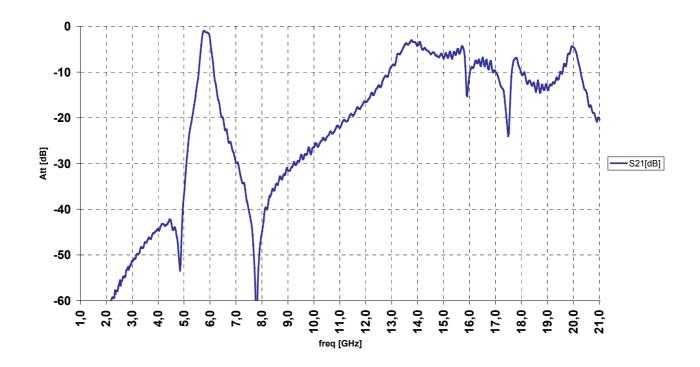
Filter

2 Pole Filter for W-LAN 5GHz / [5.725-5.875] Band

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Preliminary Data Sheet

Broadband characteristic



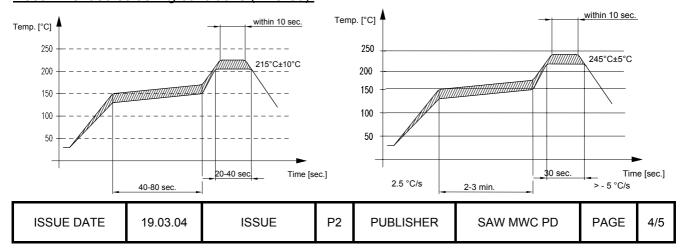
Processing information

• Wettability acc. to IEC 68-2-58: ≥ 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):





Filter

2 Pole Filter for W-LAN 5GHz / [5.725-5.875] Band

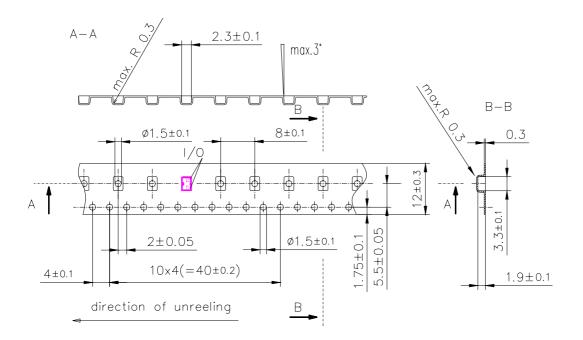
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Delivery mode

• Blister tape acc. to IEC 286-3, PS, grey

• Pieces/tape: 4000



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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