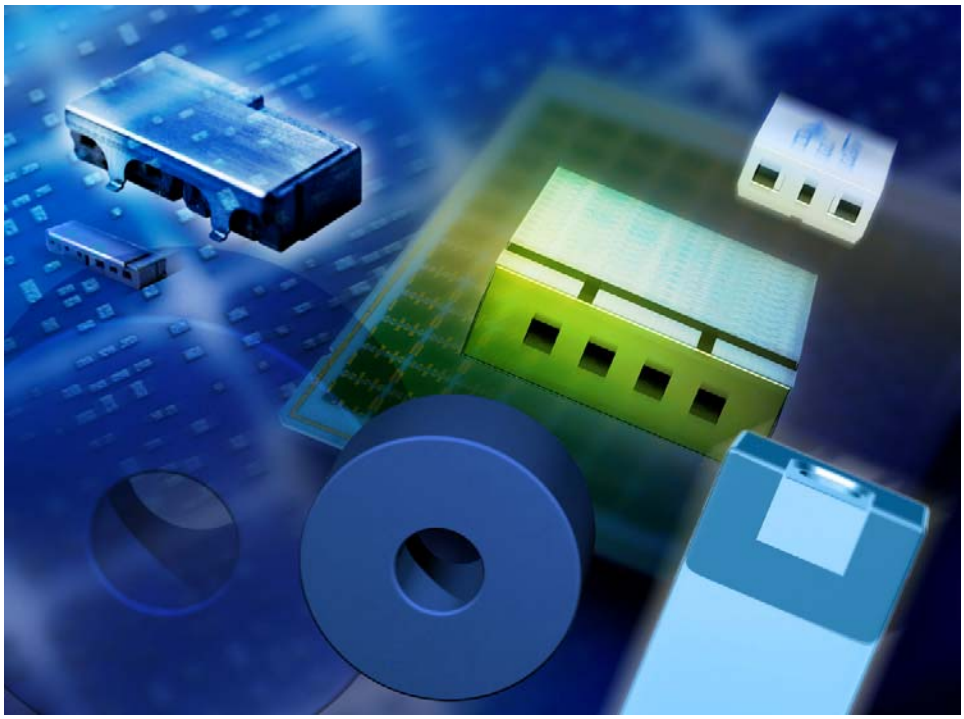
2 Pole Filter for W-LAN 5GHz / [5.15-5.35] Band

B69842N5257B202

Preliminary Data Sheet



Features

- SMD filter consisting of coupled resonators with stepped impedances
- $MgTiO_3$ - $CaTiO_3$ (ε_r = 21 / 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

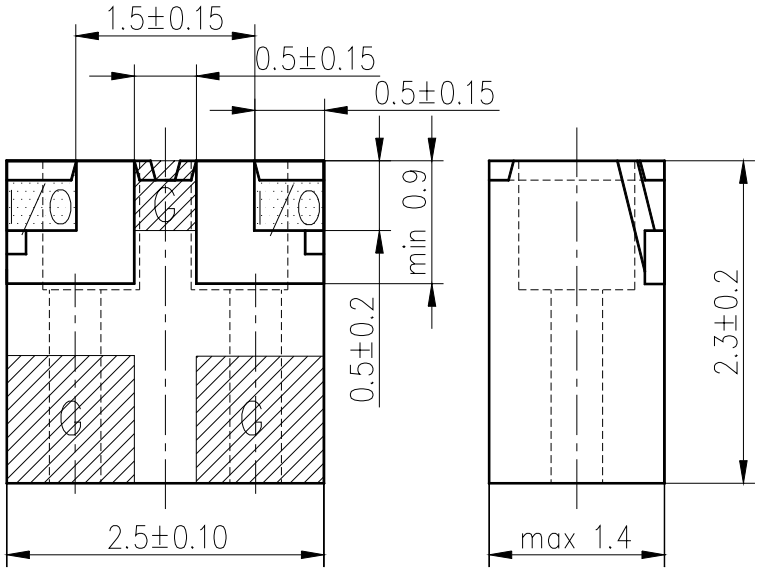
Index

Page 2
- Component drawing
- Recommended footprint

Page 3
- Characteristics
- Maximum ratings
- Typical passband characteristic

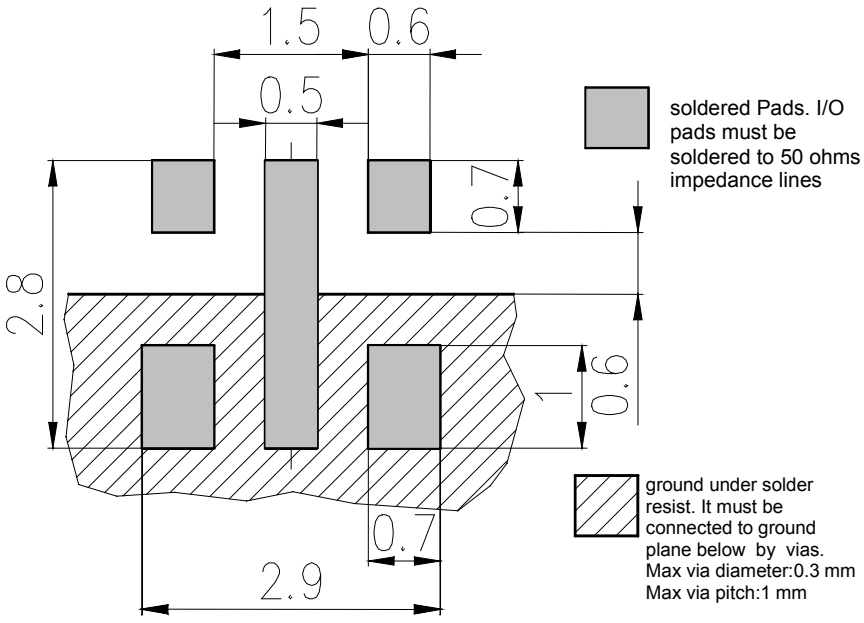
Page 4
- Processing information
- Soldering requirements
- Delivery mode

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



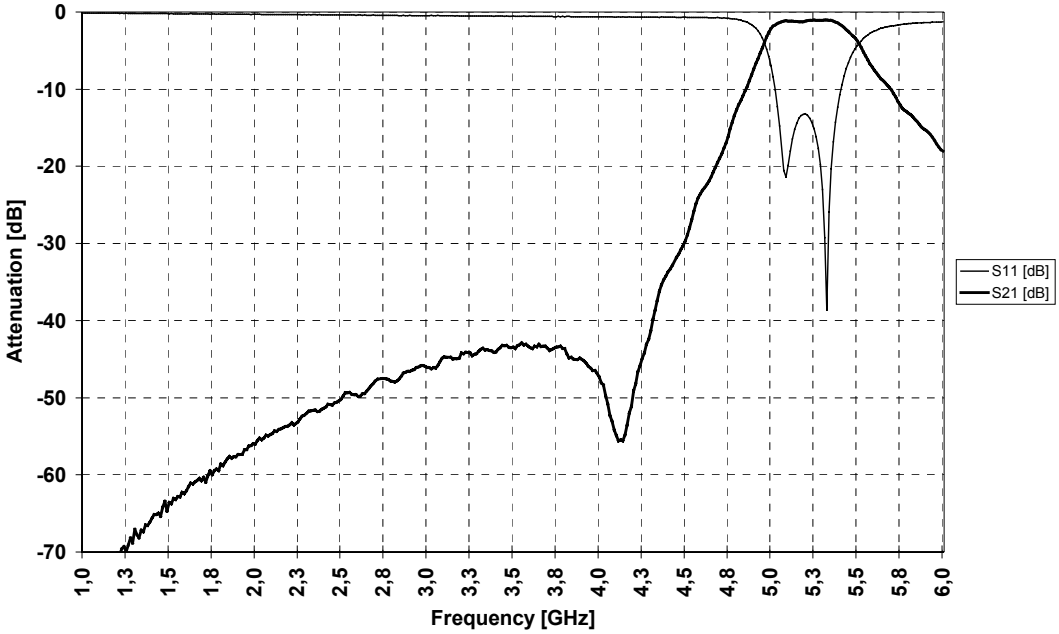
Characteristics

			min.	typ.	max.	
Center frequency		f_C	-	5250	-	MHz
Insertion loss		α_{IL}		0.9	1.0	dB
Passband		B	200			MHz
Standing wave ratio		SWR		1.5	2.0	
Impedance		Z		50		Ω
Power		P			1.0	W
Attenuation		α				
	at DC to 1990 MHz		52	57		dB
	at 1990 to 2170 MHz		50	55		dB
	at 2400 to 2500 MHz		45	50		dB

Maximum ratings

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

Typical passband characteristic



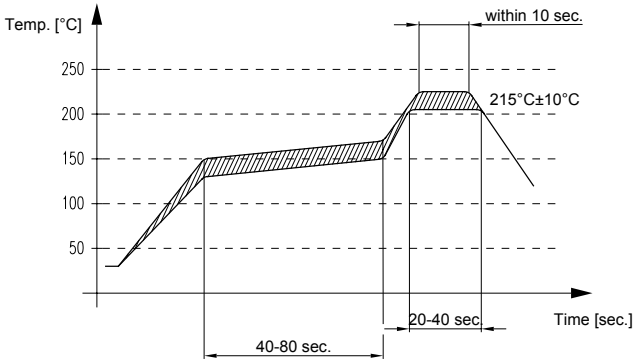
Processing information

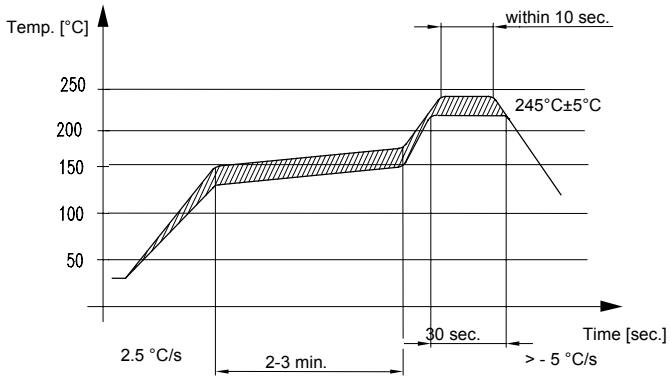
- Wettability acc. to IEC 68-2-58: ≥ 75% (after aging)

Soldering Requirements

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

Recommended soldering conditions (infrared):





Delivery mode

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