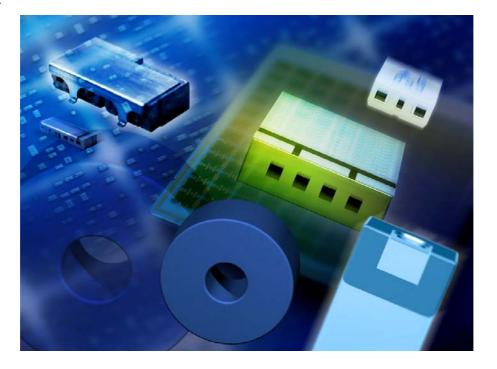


# 2 – Pole Filter for W - LAN

B69812N2457D201

Filter

**Data Sheet** 



## Features

- SMD filter consisting of coupled resonators with stepped impedances
- extreme low losses
- high attenuations at GSM (900, 1800) and UMTS bands
- high attenuation at 2 times center frequency
- (NdBa)TiO<sub>3</sub> ( $\varepsilon_{f}$  = 88 / *TC<sub>f</sub>* =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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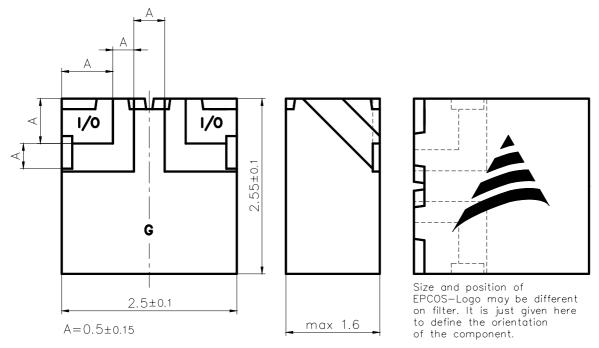
2 – Pole Filter for W - LAN

B69812N2457D201

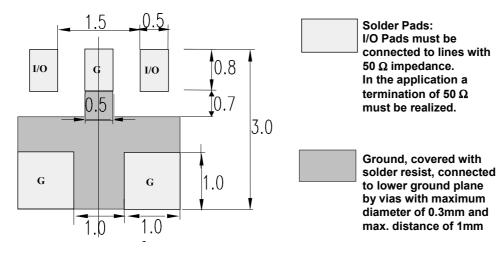
Filter

**Data Sheet** 

## **Dimension Limits**, Marking



View from below onto the solder terminals and view from beside



# **Recommended footprint**

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# 2 – Pole Filter for W - LAN

# B69812N2457D201

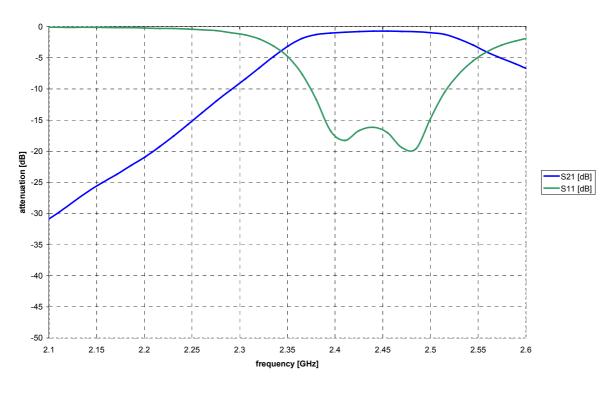
Filter

**Data Sheet** 

# Characteristics

		min.	typ.	max.	
Center frequency	f <sub>C</sub>	-	2.450	-	GHz
Insertion loss	αιΓ		0.7	1.0	dB
Passband (2400- 2500)	В	100			MHz
Amplitude ripple (peak - peak)	Δα		0.4	0.8	dB
Standing wave ratio	SWR		1.5	2.0	
Impedance	Z		50		Ω
Attenuation	α				
at DC to 880 MHz		50	55		dB
at 880 to 960 MHz		45	50		dB
at 960 to 1990 MHz		40	45		dB
at 1990 to 2100 MHz		25	30		dB
at 2100 to 2170 MHz		20	25		dB
at 3000 to 3200 MHz		15	20		dB
at 3200 to 3500 MHz		20	25		dB
at 3500 to 4800 MHz		27	30		dB
at 4800 to 5000 MHz		25	30		dB
Maximum ratings					
IEC climatic category (IEC 68-1)		- 40 /+ 9	0/56		
Operating temperature	$ au_{op}$	- 40 / + 8	85	°C	

# Typical passband characteristic



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# 2 – Pole Filter for W - LAN

B69812N2457D201

Filter

**Data Sheet** 

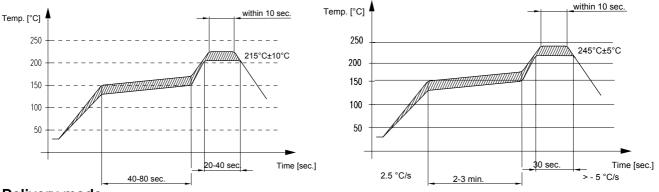
# **Processing information**

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

## Soldering Requirements

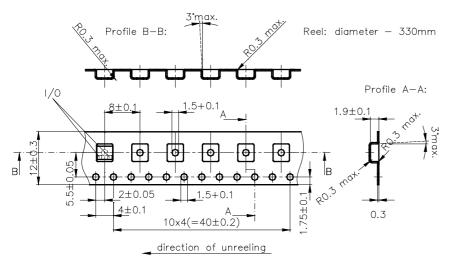
	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (measuring point on top surface of the component)		260 (max. 2 sec.) 250 (max. 10 sec.)	°C ℃

#### Recommended soldering conditions (infrared):



## **Delivery mode**

- Blister tape acc. to IEC 286-3, 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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