

Filter

2-Pol Filter for WLL

B69842N3487A185

Data Sheet



Features

- SMD filter consisting of coupled resonators with stepped impedances
- MgTiO₃-CaTiO₃ ($\varepsilon_r = 21 / TC_f = 0 \pm 10 \text{ ppm/K}$) with a coating of copper (10µm) and tin (>5µm)
- Excellent reflow solderability, no migration effect due to copper/tin metallization
- ESD insensitivity and ESD protecting due to filter characteristics

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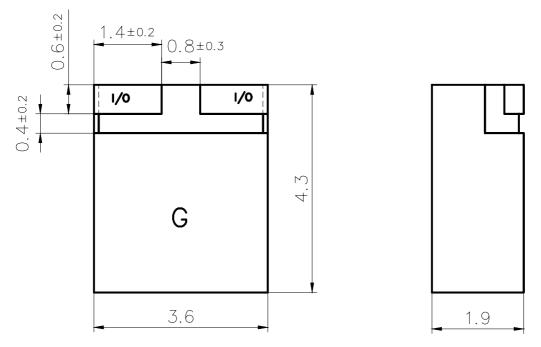
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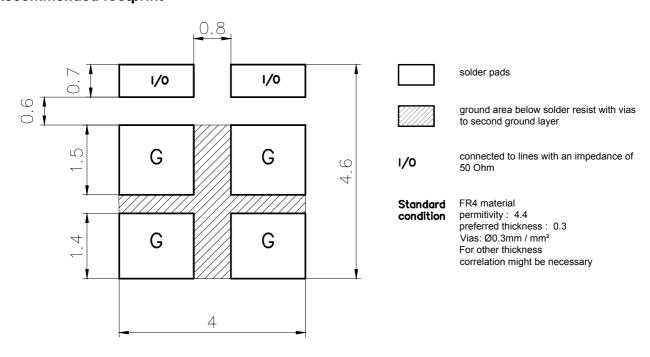
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Component drawing



View from below onto the solder terminals and view from

Recommended footprint



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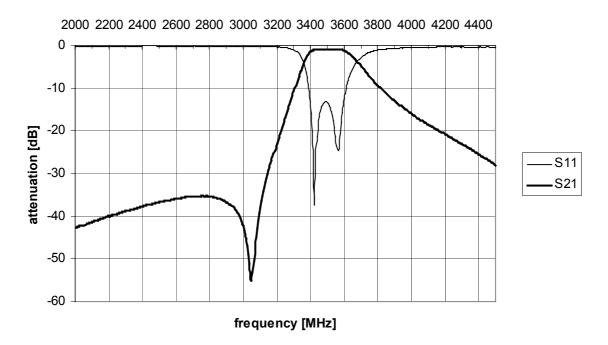
Characteristics

		min.	typ.	max.	
Center frequency	f_{C}	-	3487.5	-	MHz
Insertion loss	α_{IL}		0.8	1.6	dB
Passband	В	185			MHz
Amplitude ripple (peak - peak)	$\Delta \alpha$		0.4	1.0	dB
Standing wave ratio	SWR		1.7	2.0	
Impedance	Z		50		Ω
Attenuation	α				
at 3100 MHz		27	33		dB
at 3242 MHz		10	14		dB
at 3875 MHz		9	10		dB

Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	$T_{\sf op}$	-30 / +85	°C

Typical passband characteristic



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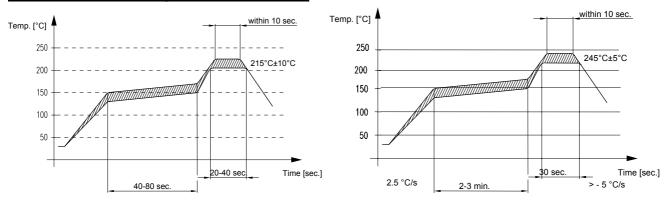
Processing information

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

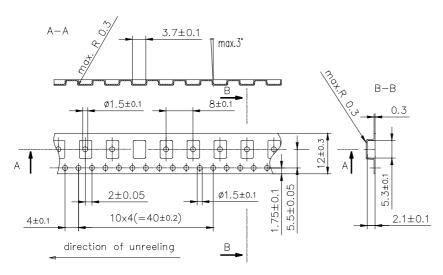
Recommended soldering conditions (infrared):



Delivery mode

Blister tape acc. to IEC 286-3, polyester, grey

Pieces/tape: 3000



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