

Microwave Ceramics Filters

Series/Type: A201

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B69812N2457A201	CF61B1701-2450-100	2012-04-27	2012-07-31	2012-10-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



Microwave Ceramics Filter B69812N2457A201

2-pole filter for WLAN S2I1/3/1

Data sheet

Modification

A 28.11.01 Stadler Upgraded to new form 16.02.10 Reichel

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)TiO₃ ($\varepsilon_r = 88/TC_f = \pm 10 \text{ ppm/K}$) with a coating of copper (10 μ m) and tin (>5 μ m)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

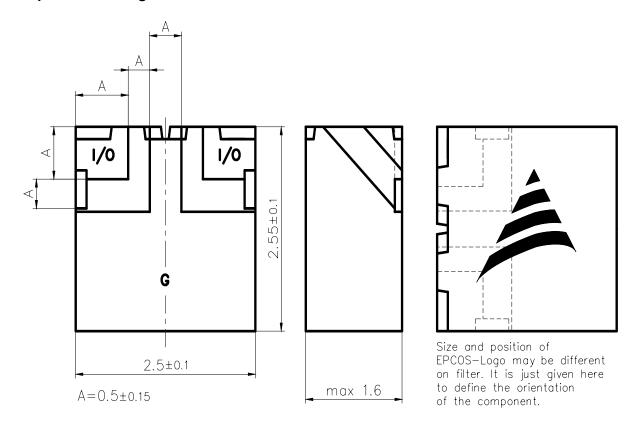


2-pole filter for WLAN

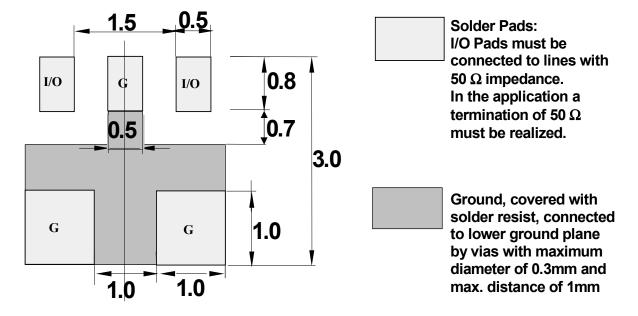
S2I1/3/1

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Component drawing



Recommended footprint



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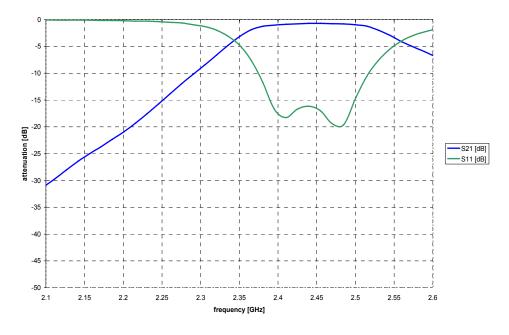
Characteristics

		min.	typ.	max.	
Center frequency		_	2.450	_	GHz
Insertion loss	α_{IL}		1.0	1.3	dB
Passband (2400 2500)	В	100			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	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 °C/+90 °C/56	
Operating temperature	T _{op}	-40/+85	°C

Typical passband characteristic



SAW MLIP CER PD

2010-02-16



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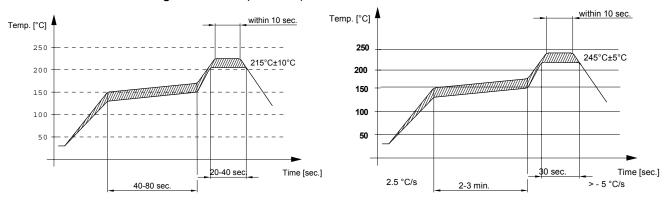
Processing information

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

Soldering requirements

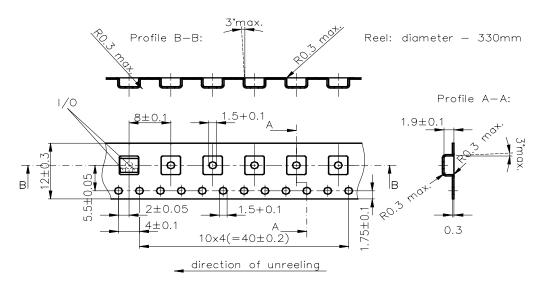
		Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature	235 (max. 2 sec.)	260 (max. 2 sec.)	°C
(measuring point on top surface of the component)	225 (max. 10 sec.)	250 (max. 10 sec.)	°C

Recommended soldering conditions (infrared):



Delivery mode

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



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