



Microwave Ceramics Filter

2-pole filter for ISM

Series/Type:	S2G3/2/1
Ordering code:	B69812N9156B726
Date:	2010-01-20
Version:	B

Data sheet
Modification

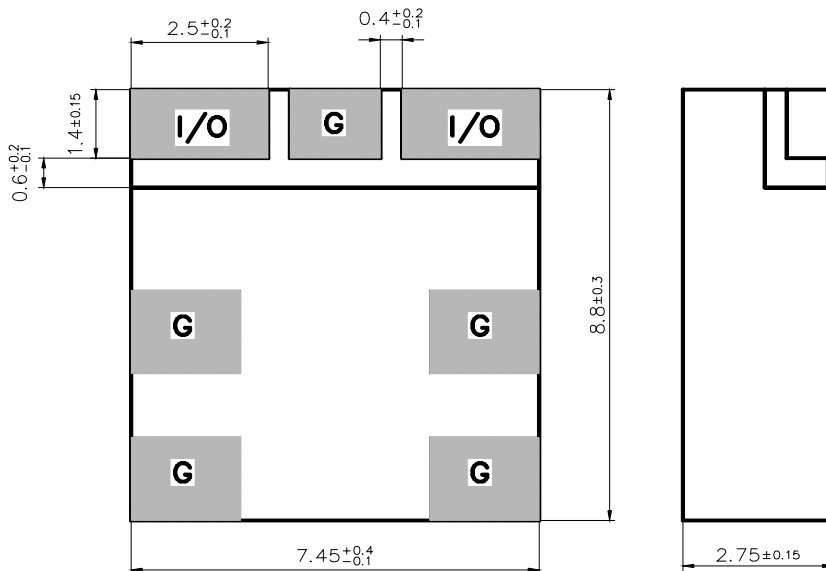
P2		17.07.96	Freising
P3	Recommended footprint	29.10.97	Freising
P4	Recommended footprint, component drawing	04.05.99	Keiler
P5	Recommended footprint	29.07.03	Stadler
P6	Standing wave ratio	19.08.03	Freising
A		05.04.04	Freising
B	Upgraded to new form	20.01.10	Reichel

Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO₃ ($\epsilon_r = 88/TC_f = 0 \pm 10$ ppm/K) with a coating of copper (10 μm) and tin (>5 μm)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

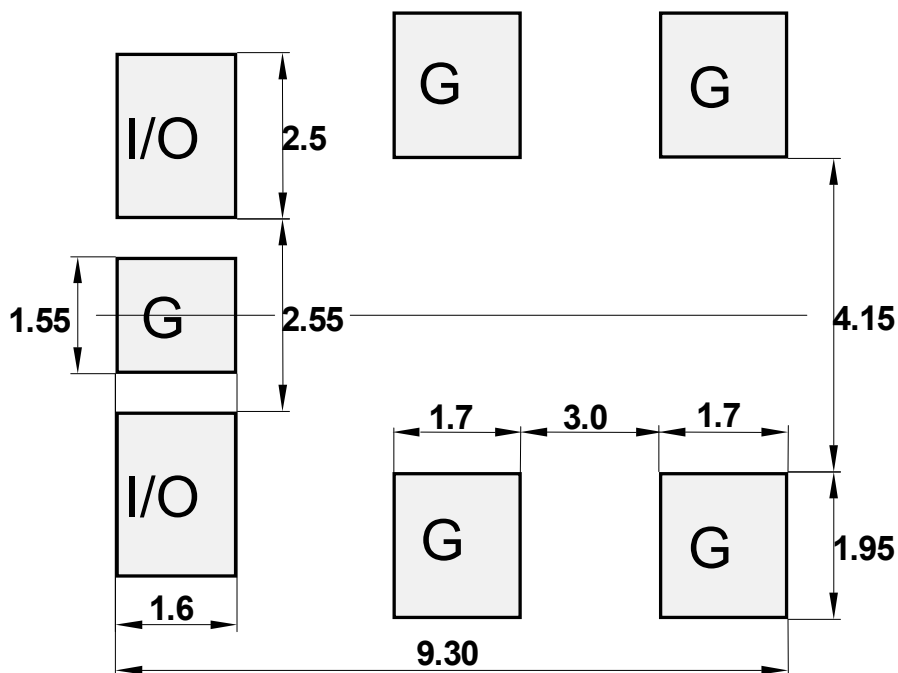
Data sheet

Component drawing



View from below onto the solder terminals and view from beside
 Marking: 'EPCOS logo' SC 9156, on top of the filter

Recommended footprint



Data sheet

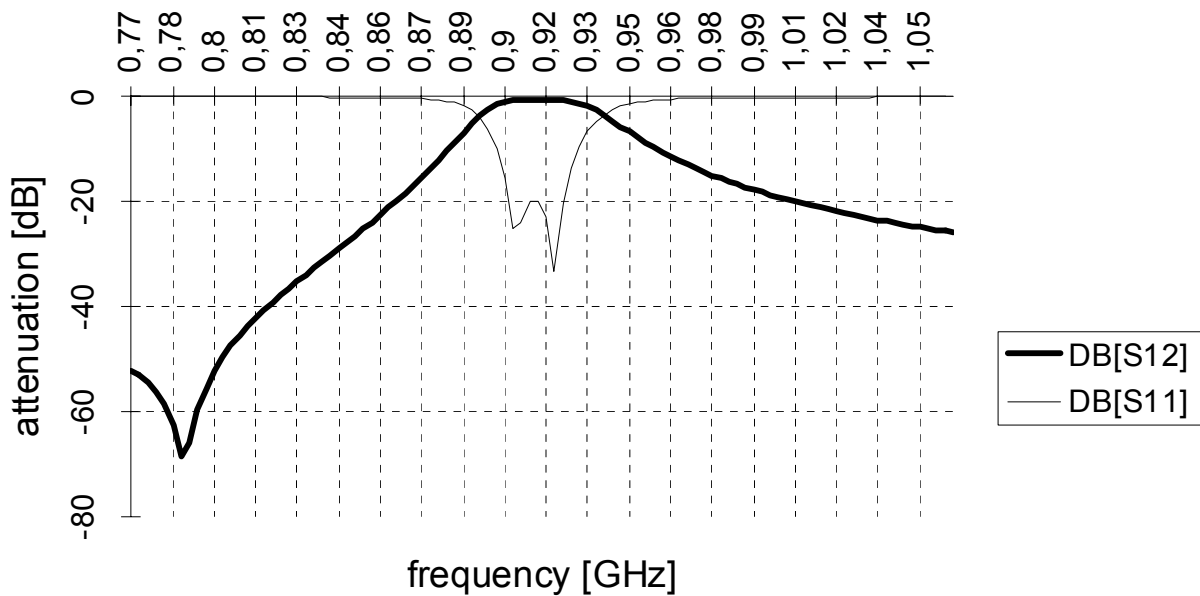
Characteristics

		min.	typ.	max.	
Center frequency	f_c	-	915	-	MHz
Insertion loss	α_{IL}		1.3	2.0	dB
Passband	B	26			MHz
Amplitude ripple (peak – peak)	$\Delta\alpha$		0.5	1.0	dB
Standing wave ratio	SWR		1.5	1.7	
Impedance	Z		50		Ω
Attenuation	α	at 818 MHz	35	40	dB
		at 1026 MHz	20	25	dB

Maximum ratings

IEC climatic category (IEC 68-1)		-40 °C/+90 °C/56	
Operating temperature	T_{op}	-20/+85	°C

Typical passband characteristic



Data sheet

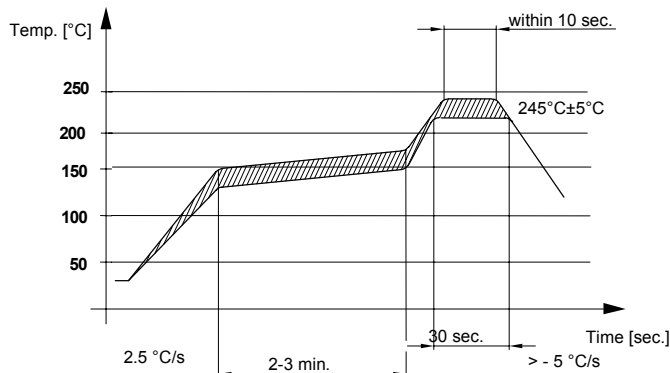
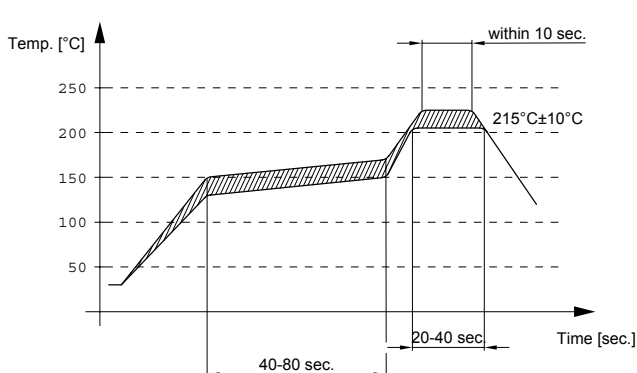
Processing information

- Wettability acc. 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)	235 (max. 2 sec.) 225 (max. 10 sec.)	260 (max. 2 sec.) 250 (max. 10 sec.)	°C °C

Recommended soldering conditions (infrared):

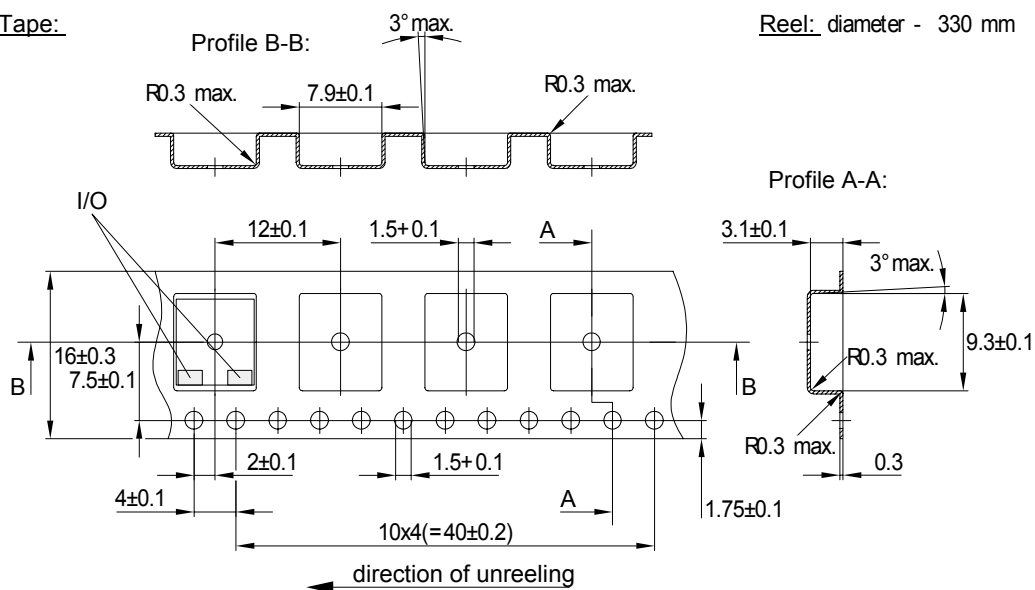


Delivery mode

- Blister tape acc. to IEC 286-3, polyester, grey
- Pieces/tape: 1500

Tape:

Reel: diameter - 330 mm



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