



Microwave Ceramics Filters

Series/Type: C403

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B69812N1577C403	CF61B0801-1575-3	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.

Data sheet**Modification**

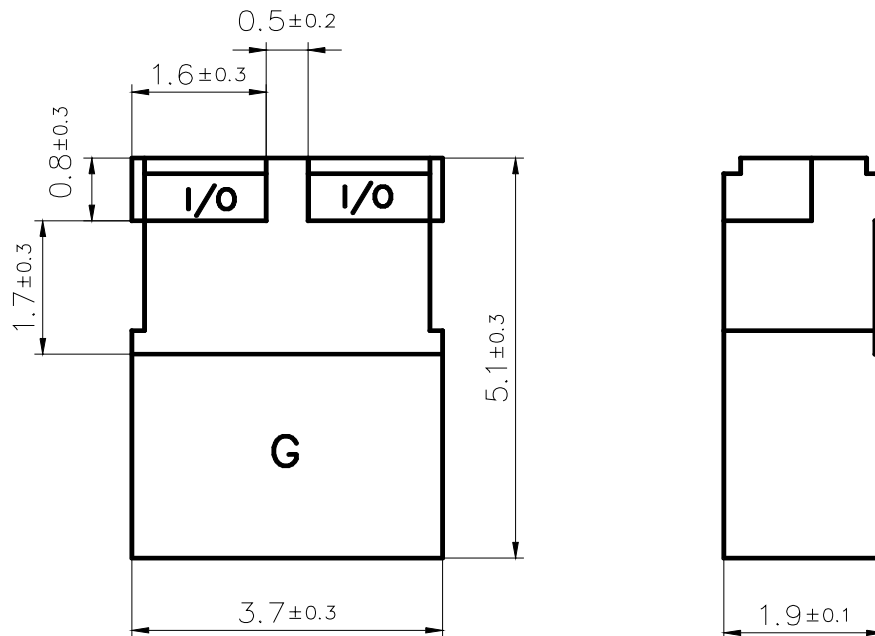
A		14.05.03	Leitner
B	Soldering requirements	03.03.04	Freising
C	Upgraded to new form	03.12.09	Reichel

Applications

- GPS filter

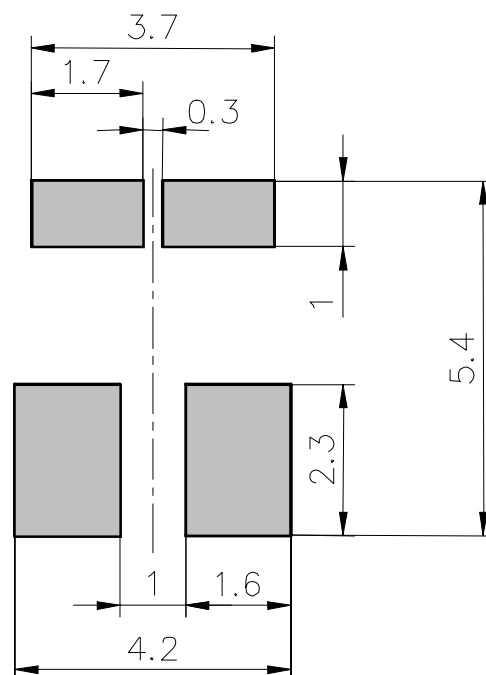
Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO₃ ($\epsilon_r = 88$ /TC_f = 0 ±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, DC', on top of the filter

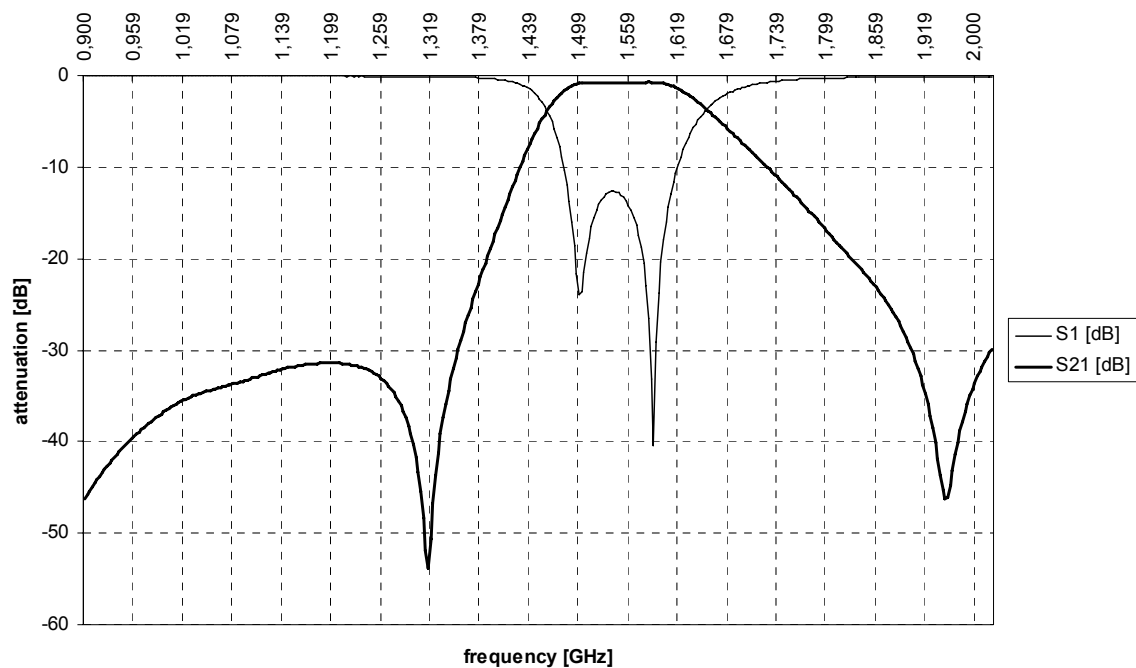
Recommended footprint


Data sheet
Characteristics

		min.	typ.	max.	
Center frequency	f_c	–	1575	–	MHz
Insertion loss	α_{IL}		0.65	0.9	dB
Passband	B	3			MHz
Amplitude ripple (peak – peak)	$\Delta\alpha$			0.5	dB
Standing wave ratio	SWR		1.2	1.8	
Impedance	Z		50		Ω
Attenuation	α				
	at 900 MHz	20			dB
	at 1850 to 1990 MHz	20			dB

Maximum ratings

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

Typical passband characteristic


Data sheet

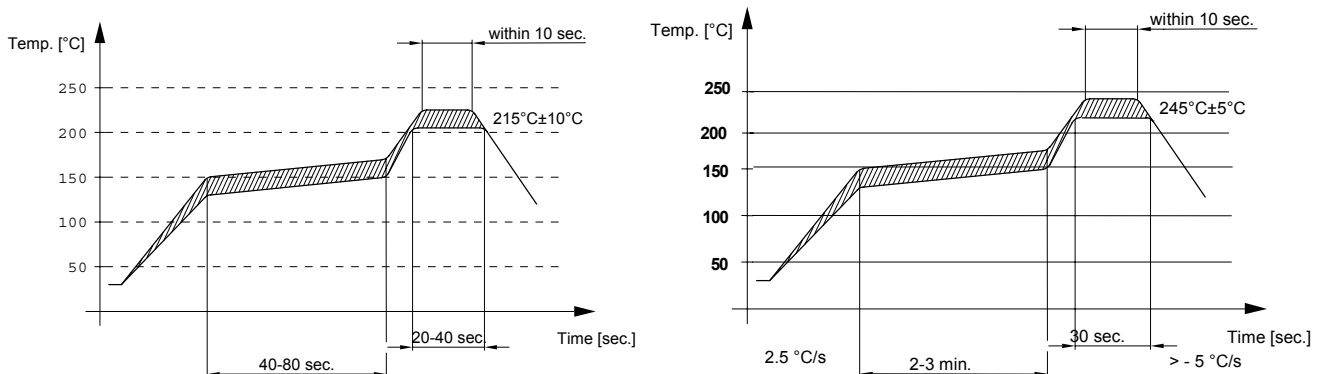
Processing information

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

Soldering requirements

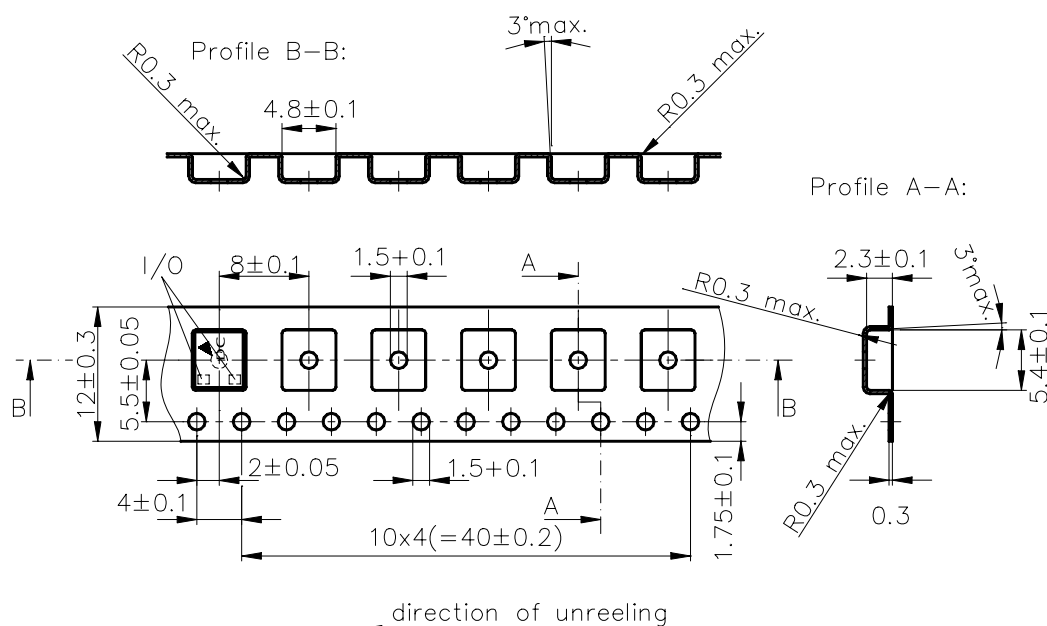
	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature	235 (max. 2 sec.)	260 (max. 2 sec.)	°C
(measuring point on top surface of the component)	225 (max. 10 sec.)	250 (max. 10 sec.)	°C

Recommended soldering conditions (infrared):



Delivery mode

- Blister tape acc. to IEC 286-3, polyester, grey
- Pieces/tape: 3000



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