

Features

- SMD filter consisting of coupled resonators with stepped impedances
- $\text{MgTiO}_3\text{-CaTiO}_3$ ($\epsilon_r = 21$ / $TC_f = 0 \pm 10 \text{ ppm/K}$) with a coating of copper ($10\mu\text{m}$) and tin ($>5\mu\text{m}$)
- Excellent reflow solderability, no migration effect due to copper/tin metallization
- ESD insensitivity and ESD protecting due to filter characteristics

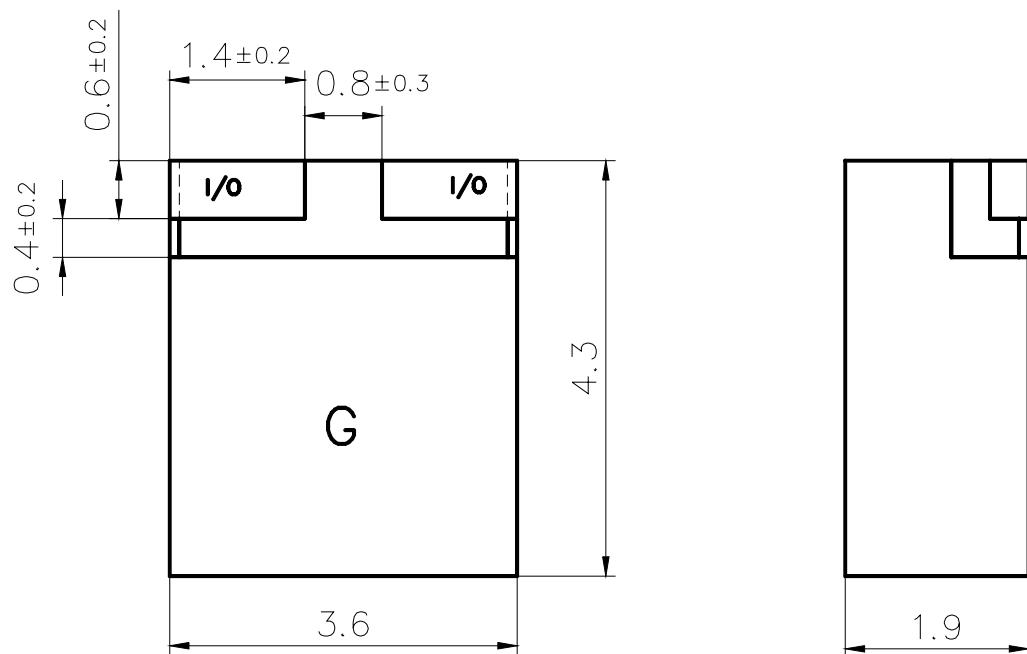
Index

Page 2	<ul style="list-style-type: none">● Component drawing● Recommended footprint
Page 3	<ul style="list-style-type: none">● Characteristics● Maximum ratings● Typical passband characteristic
Page 4	<ul style="list-style-type: none">● Processing information● Soldering requirements● Delivery mode

ISSUE DATE	05.07.04	ISSUE	P1	PUBLISHER	SAW MWC PD	PAGE	1/4
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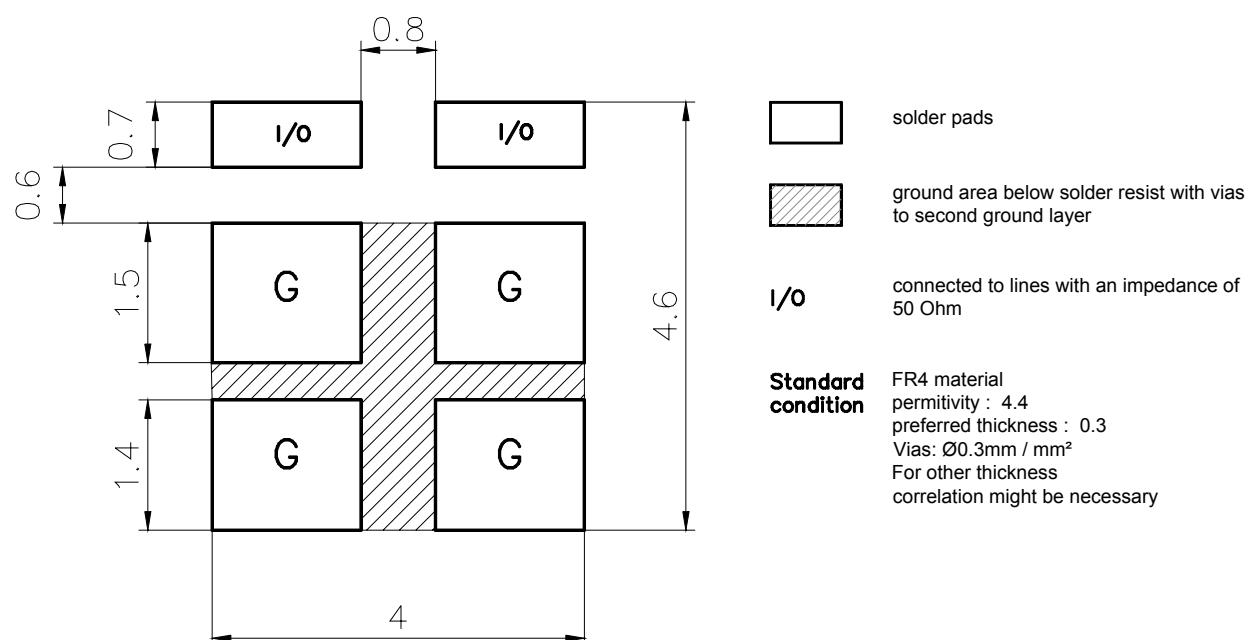
Data Sheet

Component drawing



View from below onto the solder terminals and view from

Recommended footprint

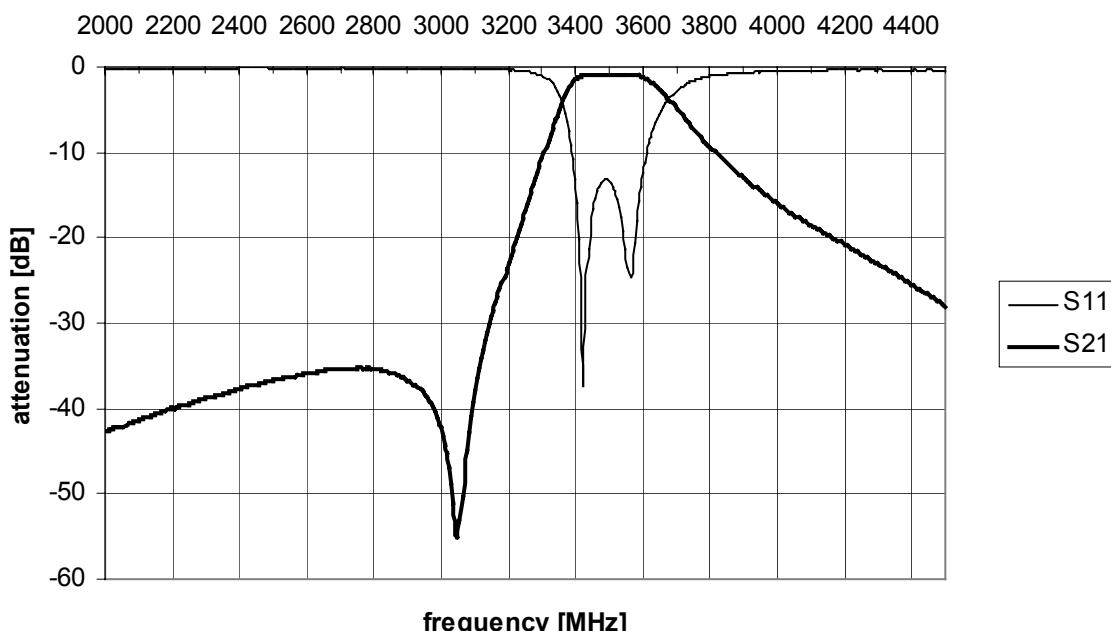


Data Sheet
Characteristics

		min.	typ.	max.	
Center frequency	f_C	-	3487.5	-	MHz
Insertion loss	α_{IL}		0.8	1.6	dB
Passband	B	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_{op} -30 / +85	°C

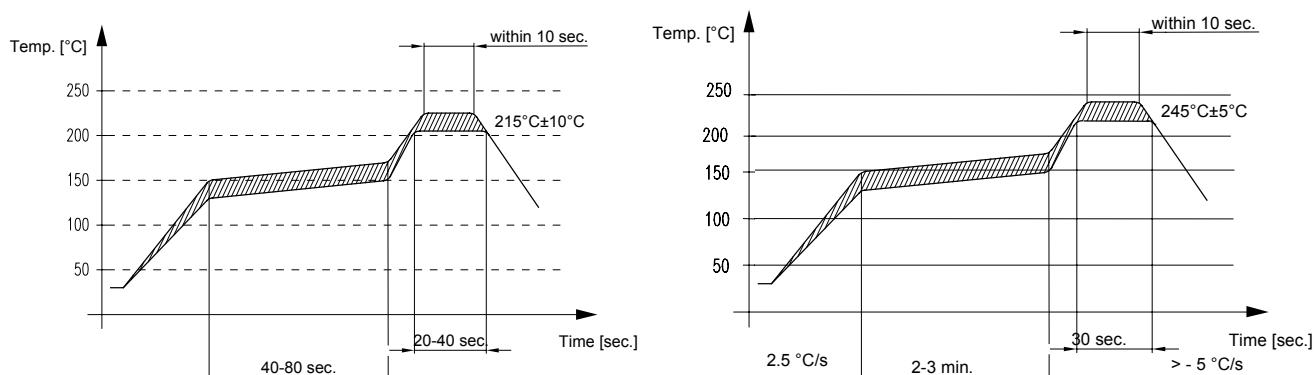
Typical passband characteristic


Data Sheet
Processing information

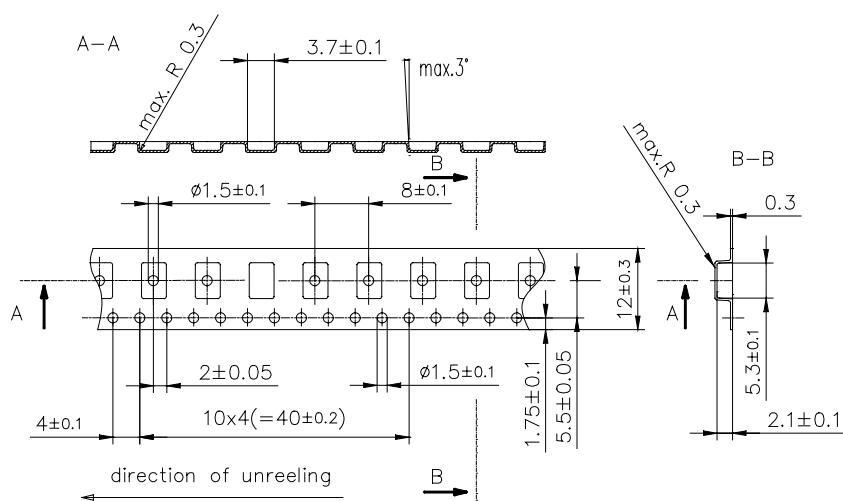
- Wettability acc. to IEC 68-2-58: $\geq 75\%$ (after aging)

Soldering Requirements

	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (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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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.

ISSUE DATE	05.07.04	ISSUE	P1	PUBLISHER	SAW MWC PD	PAGE	4/4
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