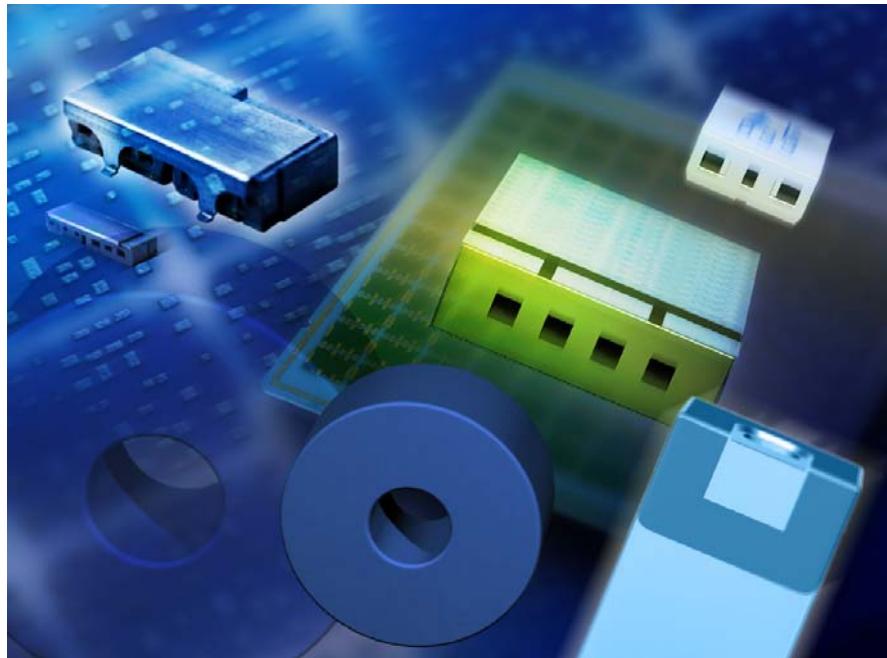


Preliminary Datasheet



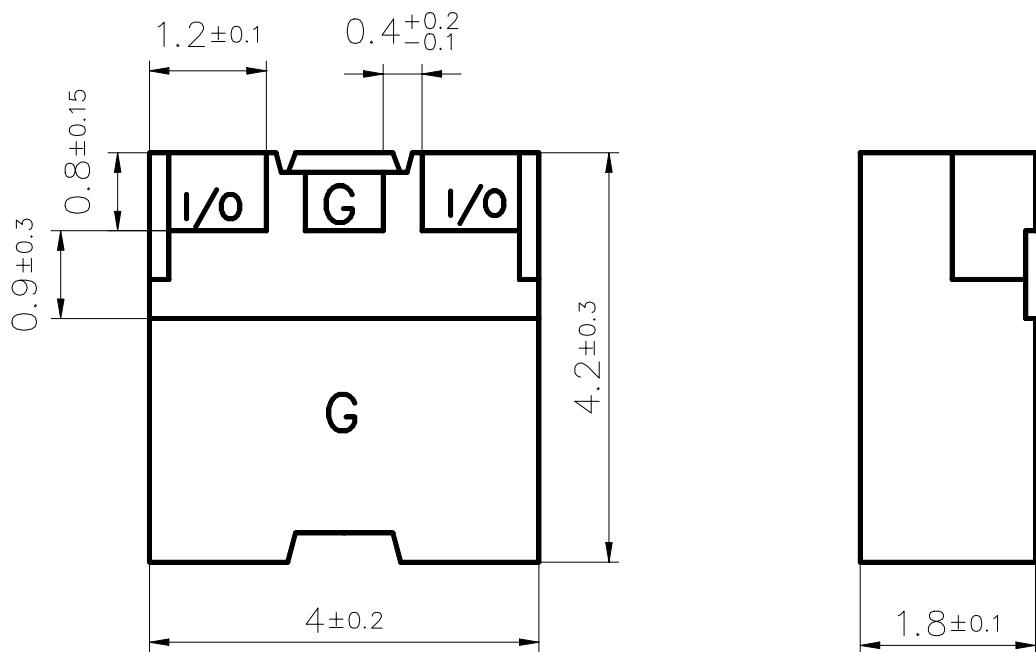
Features

- SMD filter consisting of coupled resonators with stepped impedances
- $(\text{NdBa})\text{TiO}_3$ ($\epsilon_r = 88$ / $TC_f = 0 \pm 10 \text{ ppm/K}$) 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

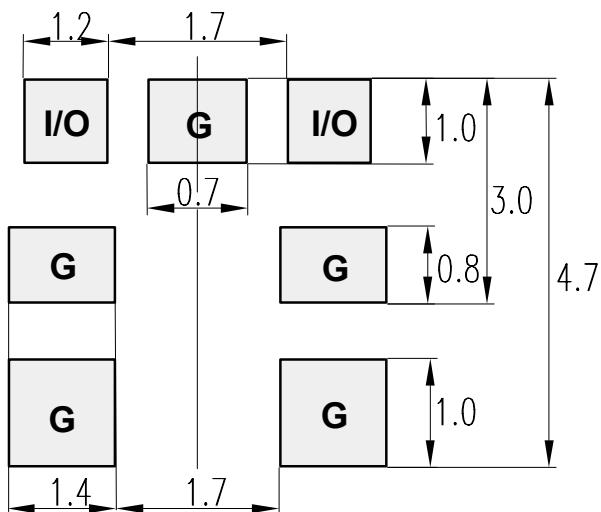
Index

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	26.05.03	ISSUE	P1	PUBLISHER	SAW MWC PD F	PAGE	1/4
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Preliminary Datasheet
Component drawing


View from below onto the solder terminals and view from beside

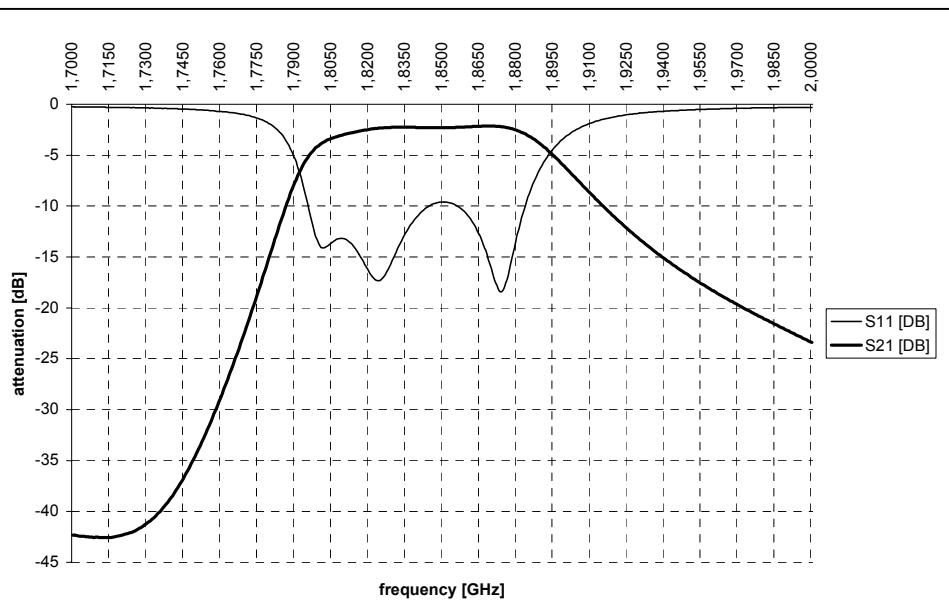
Recommended footprint


Preliminary Datasheet
**Characteristics (items marked with * must still be correlated to customer print,
top surface may have additional contact to ground)**

		min.	typ.	max.	
Center frequency	f_c	-	1842.5	-	MHz
Insertion loss	α_{II}		2.7	3.2*	dB
Passband	B	75			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		1.2	1.5	dB
Power				15	dBm
Standing wave ratio (S11, S22)	SWR		1.4	2.2	
Impedance	Z		50		Ω
Attenuation	α				
at DC to 1160 MHz		45	48		dB
at 1160 to 1705 MHz		38	40		dB
at 1705 to 1785 MHz		11*			dB
at 1920 to 1980 MHz		11*			dB
at 1980 to 2530 MHz		23*			dB
at 2530 to 2680 MHz		30			dB
at 3250 to 3400 MHz		27			dB
at 3975 to 4200 MHz		22			dB
at 4695 to 4920 MHz		15*			dB

Maximum ratings

IEC climatic category (IEC 68-1)	$-40 / +90/56$	
Storage temperature	T_{st}	
Operating temperature	T_{op}	$^{\circ}\text{C}$

Typical Passband Characteristics


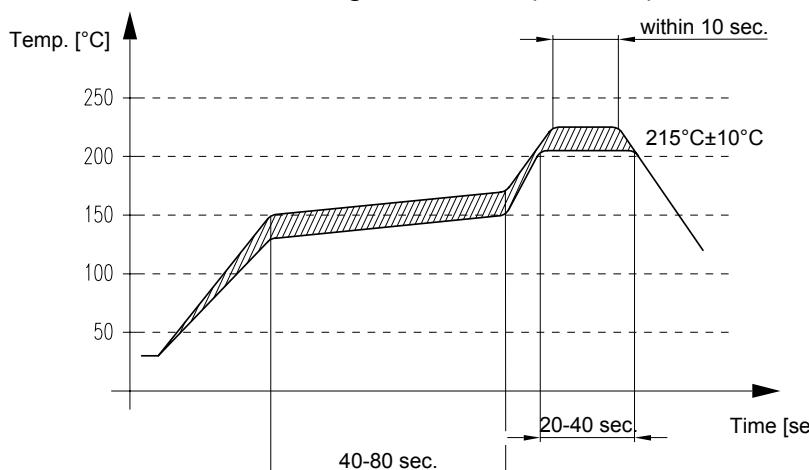
Preliminary Datasheet
Processing information

ZNr.: 452 (FILT95_2)

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

Soldering requirements

Soldering type	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	°C °C

Recommended soldering conditions (infrared):


LOETPROF.DOC

Delivery mode

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

