

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 μ m) and tin (>5 μ m)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

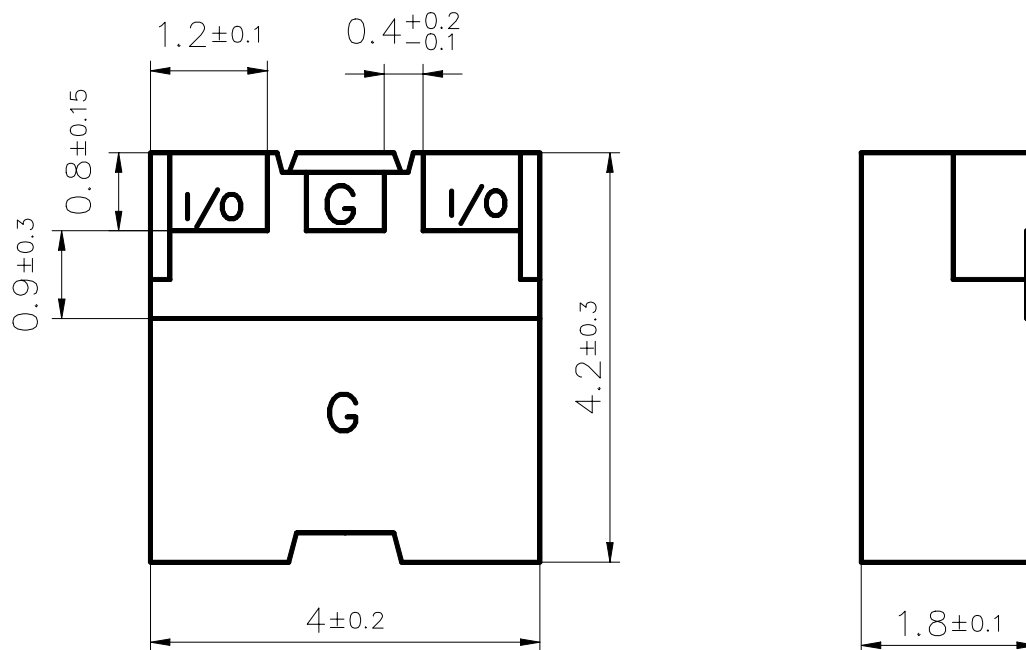
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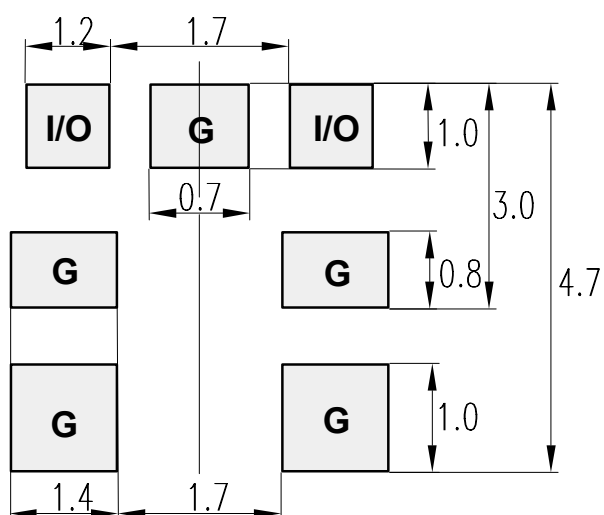
Preliminary Datasheet

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



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Preliminary Datasheet

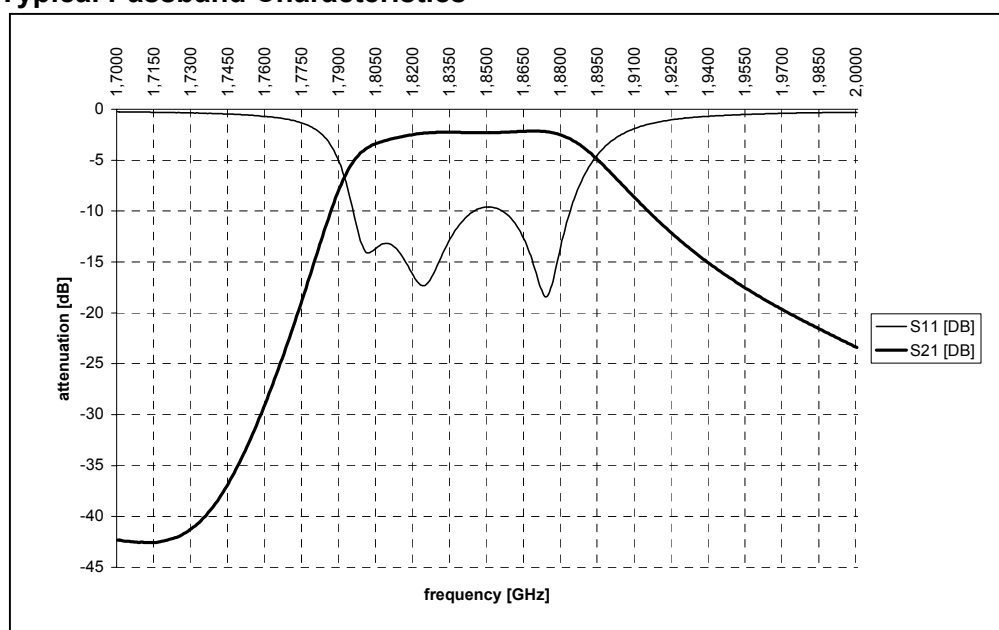
Characteristics (items marked with * must still be correlated to customer print,
top surface may have additional contact to ground)

		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}	- 40 / + 85	
Operating temperature	T_{op}	- 20 / + 80	°C

Typical Passband Characteristics



Preliminary Datasheet

ZNr.: 452 (FILT95_2)

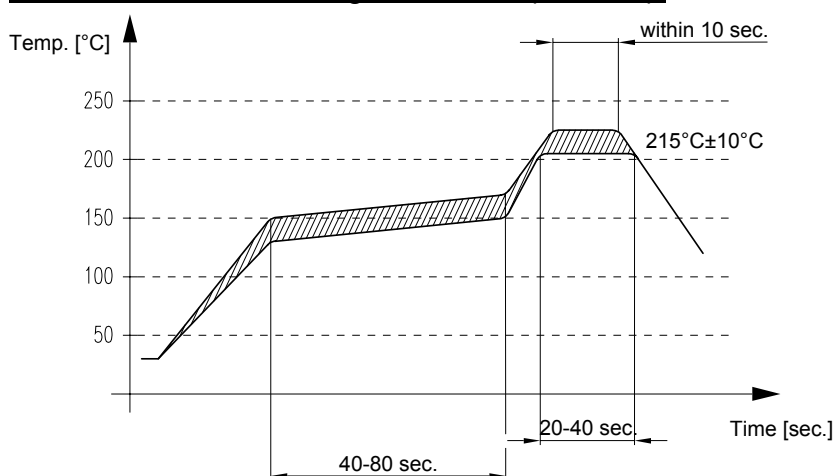
Processing information

- 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):



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Delivery mode

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

