

Application

- RF filter for WLL (Wireless Local Loop)

Features

- SMD filter consisting of coupled resonators with stepped impedances
- $\text{MgTiO}_3\text{-CaTiO}_3$ ($\epsilon_r = 21$ / $TC_f = 0 \pm 10$ 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

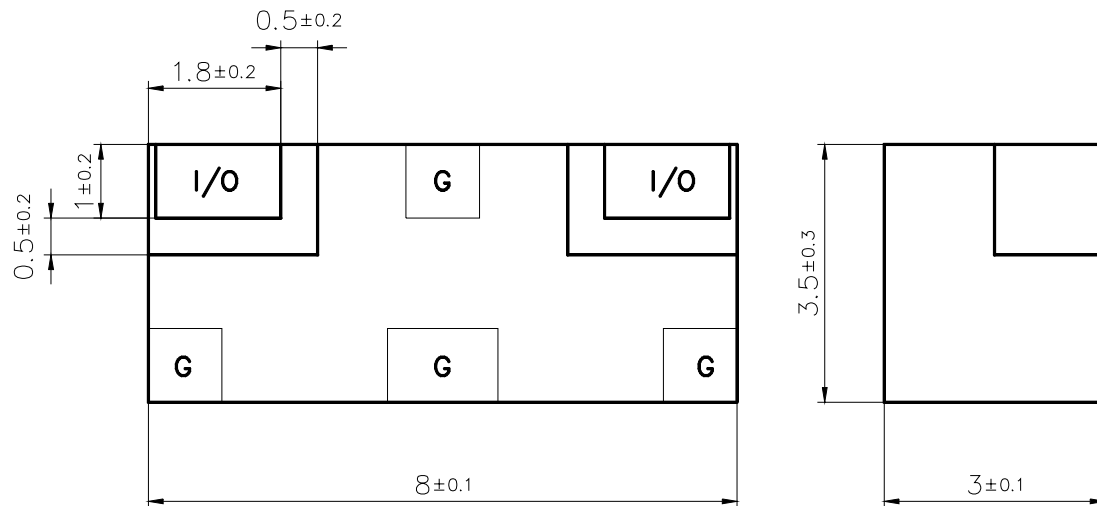
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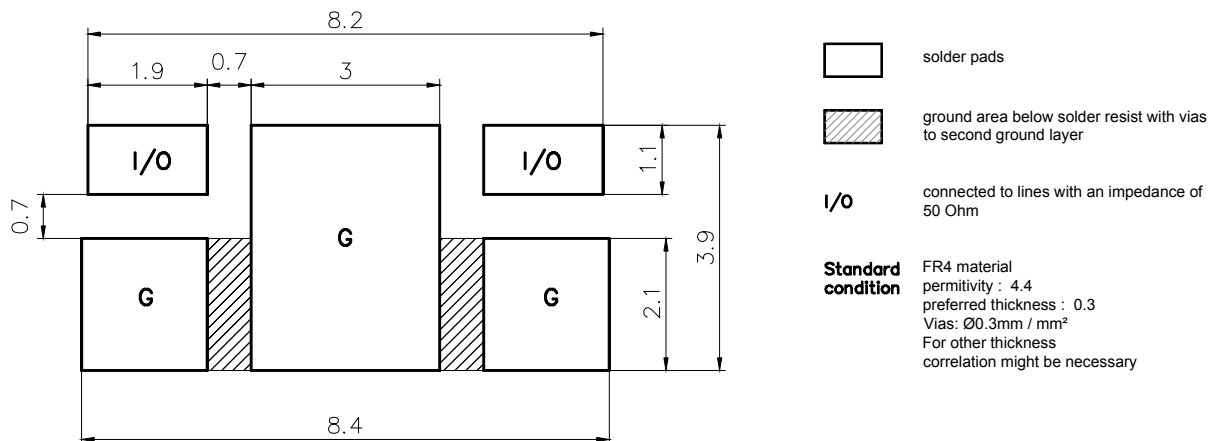
Data Sheet

Component drawing



View from below onto the solder terminals and view from beside

Recommended Footprint

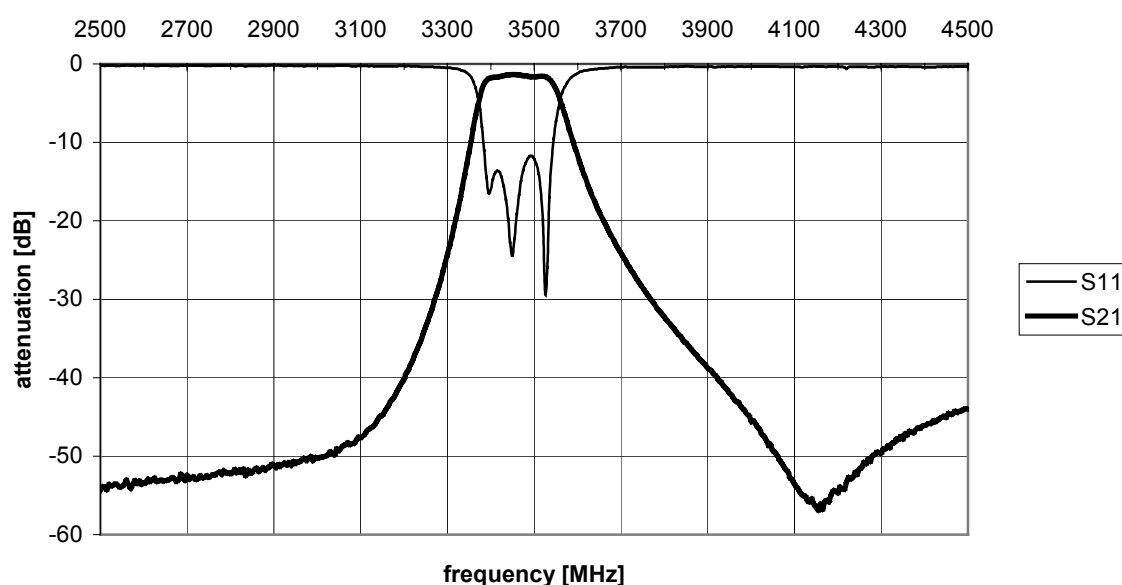


Data Sheet
Characteristics

		min.	typ.	max.	
Center frequency	f_C	-	3450.0	-	MHz
Insertion loss	α_{IL}		1.6	2.0	dB
Passband	B	120			MHz
Amplitude ripple (peak - peak) at any 10MHz BW	$\Delta\alpha$			0.4	dB
Standing wave ratio	SWR		1.5	2.0	
Impedance	Z		50		Ω
Power	P			1.0	W
Attenuation	α				
	at 2944 to 3044 MHz	45	51		dB
	at 3800 to 4200 MHz	20	29		dB

Maximum ratings

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

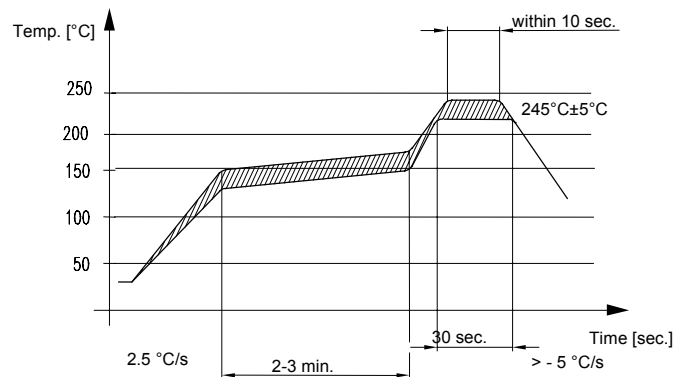
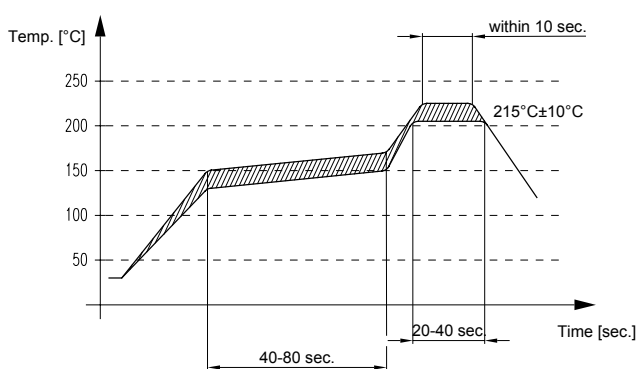
Typical passband characteristic


Data Sheet
Processing information

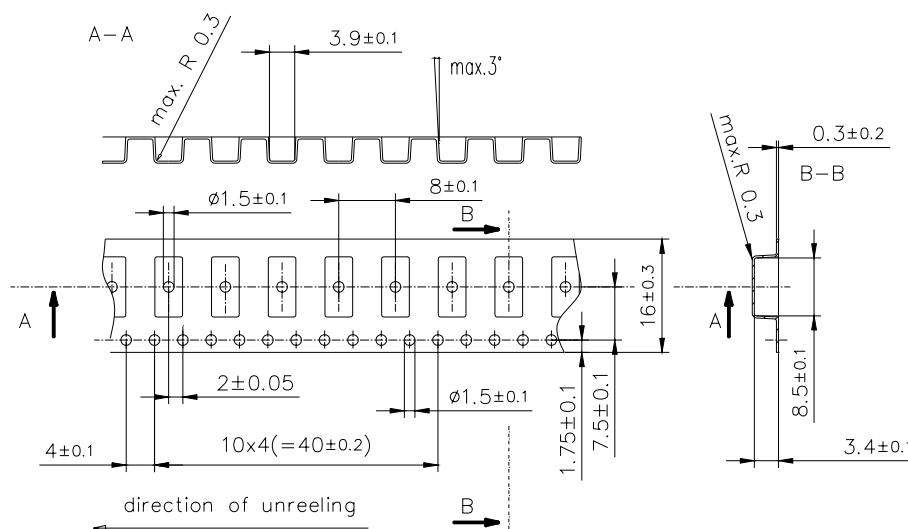
- Wettability to IEC 68-2-58: $\geq 75\%$ (after aging)

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, PS, grey
- Pieces/tape: 2000



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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.

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