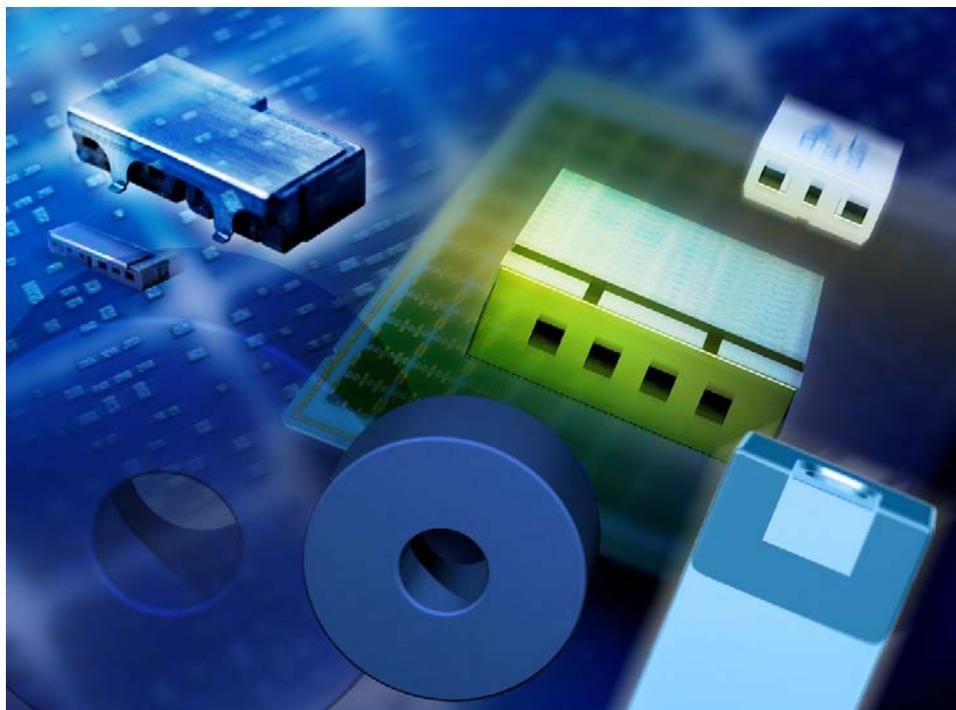


Data Sheet



**Application**

- RF filter for WLL (Wireless Local Loop)

**Features**

- SMD filter consisting of coupled resonators with stepped impedances
- $MgTiO_3-CaTiO_3$  ( $\epsilon_r = 21 / TC_f = 0 \pm 10$  ppm/K) with a coating of copper ( $10\mu m$ ) and tin ( $>5\mu m$ )
- Excellent reflow solderability, no migration effect due to copper/tin metallization
- ESD insensitivity and ESD protecting due to filter characteristics

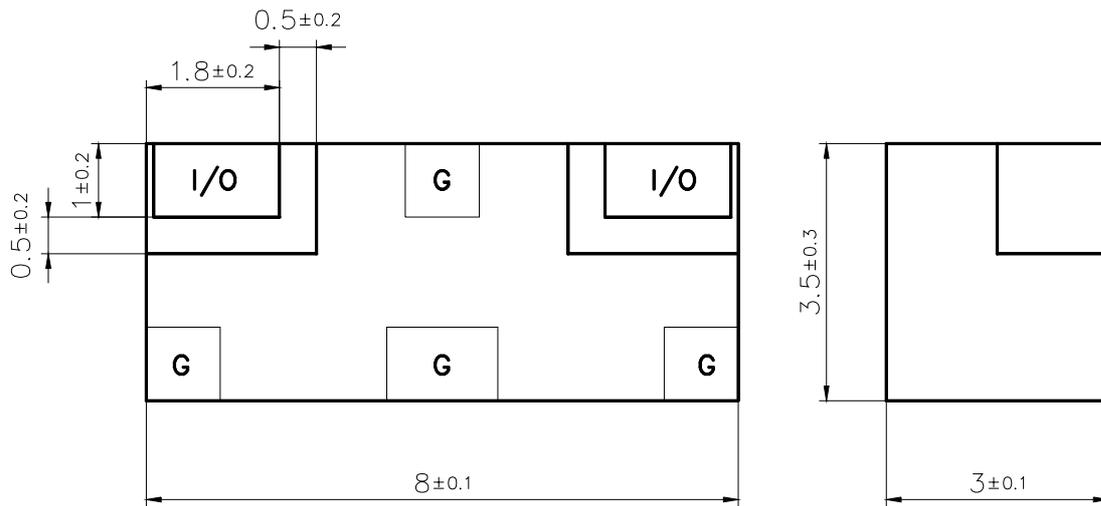
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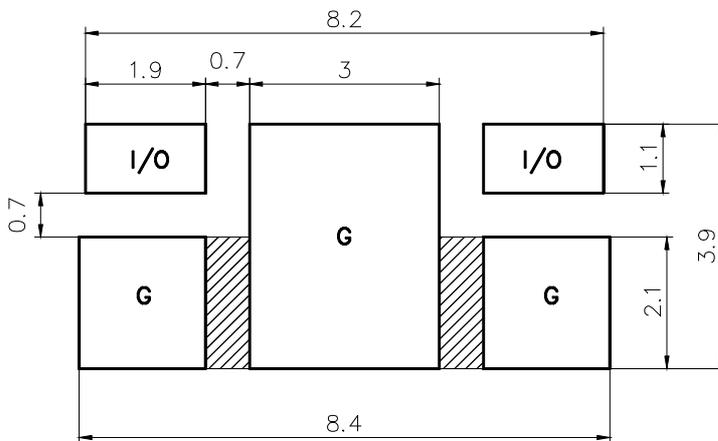
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Component drawing



View from below onto the solder terminals and view from beside

Recommended Footprint



-  solder pads
-  ground area below solder resist with vias to second ground layer
- I/O** connected to lines with an impedance of 50 Ohm

**Standard condition** FR4 material  
 permittivity : 4.4  
 preferred thickness : 0.3  
 Vias: Ø0.3mm / mm<sup>2</sup>  
 For other thickness correlation might be necessary

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Data Sheet

Characteristics

		min.	typ.	max.	
Center frequency	$f_C$	-	3450.0	-	MHz
Insertion loss	$\alpha_{IL}$		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		$\Omega$
Power	$P$			1.0	W
Attenuation	$\alpha$				
	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	$^{\circ}C$

Typical passband characteristic

