

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

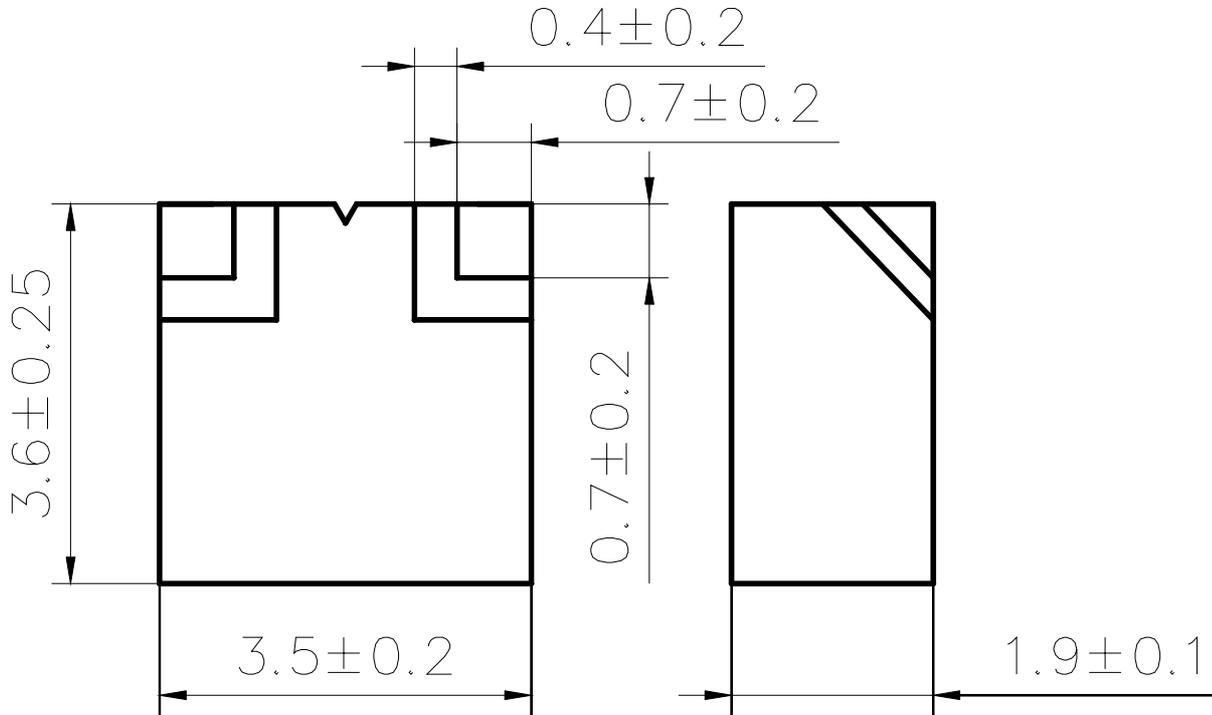
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Preliminary Datasheet

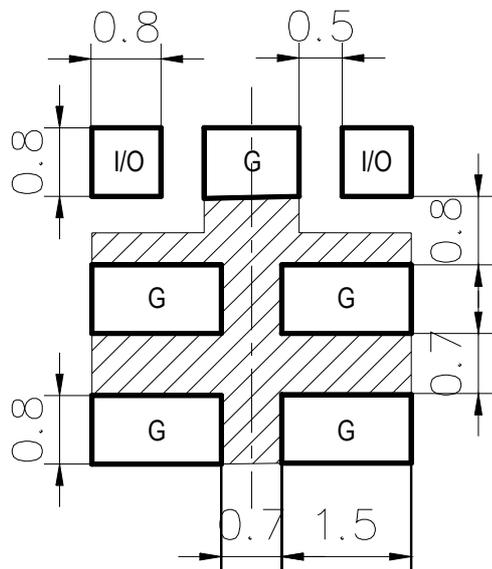
Component drawing



View from below onto the solder terminals and view from beside

COMP_060602.DWG/WMF

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 : 0.3mm
 Vias : $\varnothing 0.3\text{mm} / \text{mm}^2$
 For other thicknesses correlation might be necessary

FP_060602.DWG/WMF

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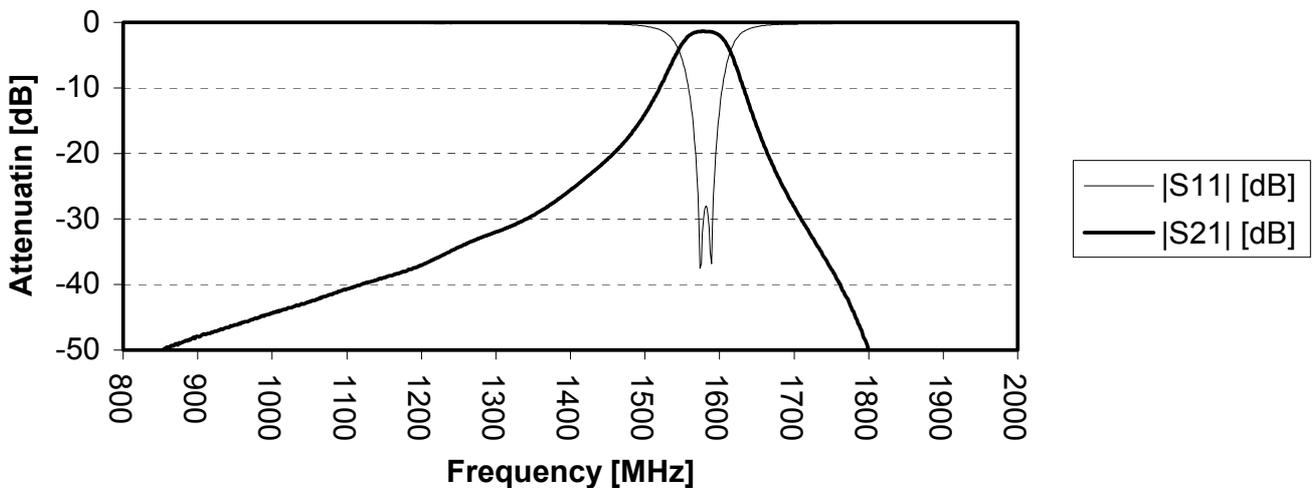
Characteristics

		min.	typ.	max.	
Center frequency	f_c	-	1575.42	-	MHz
Insertion loss	$\alpha_{ L}$		1.3	1.5	dB
Passband	B	2			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$			0.1	dB
Standing wave ratio	SWR			1.8	
Impedance	Z		50		Ω
Attenuation	α	at 824 to 849 MHz	50		dB
		at 1850 to 1910 MHz	45		dB

Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	T_{op}	- 30 / + 85	°C
Storage temperature	T_{op}	- 40 / + 85	°C

Typical passband characteristic



Preliminary Datasheet

ZNr.: 605 (FILT95_2)

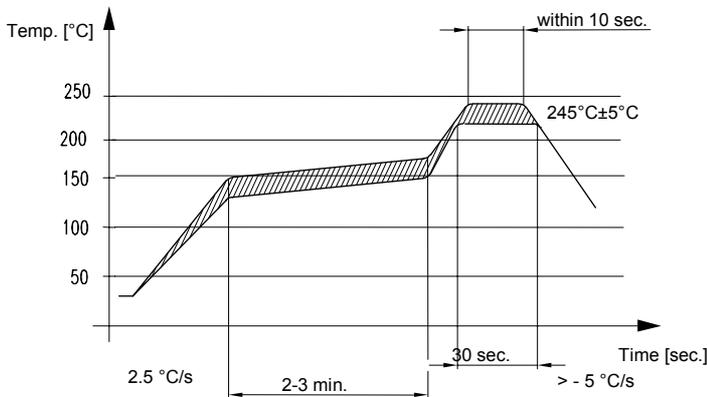
Processing information

- 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)	260 (max. 2 sec.) 250 (max. 10 sec.)	$^{\circ}\text{C}$ $^{\circ}\text{C}$

Recommended soldering conditions (infrared):

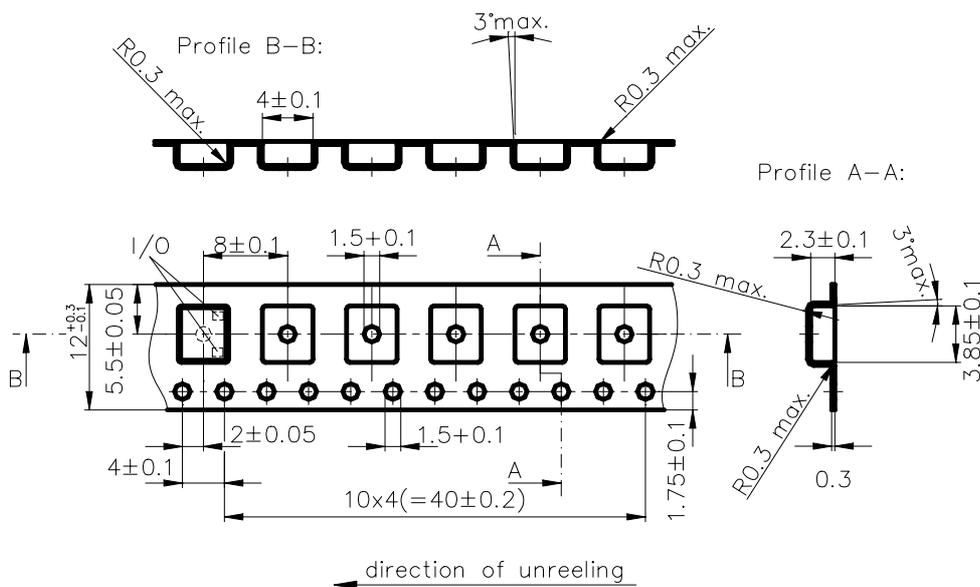


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Delivery mode

- Blister tape to IEC 286-3, PS, grey
- Pieces/tape: 3000

Reel: diameter – 330 mm



Tap 424

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