

Features

- SMD filter consisting of coupled resonators with stepped impedances
- extreme low losses
- high attenuations at GSM (900, 1800) and UMTS bands
- high attenuation a 2 times center frequency
- $(\text{NdBa})\text{TiO}_3$ ($\epsilon_r = 88$ / $TC_f = 0 \pm 10$ 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

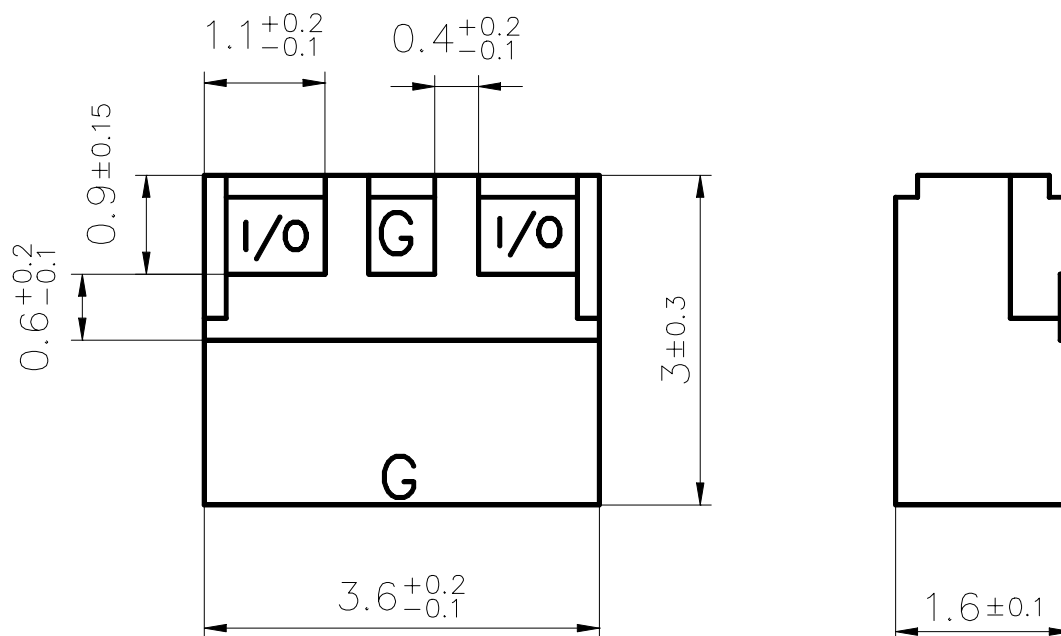
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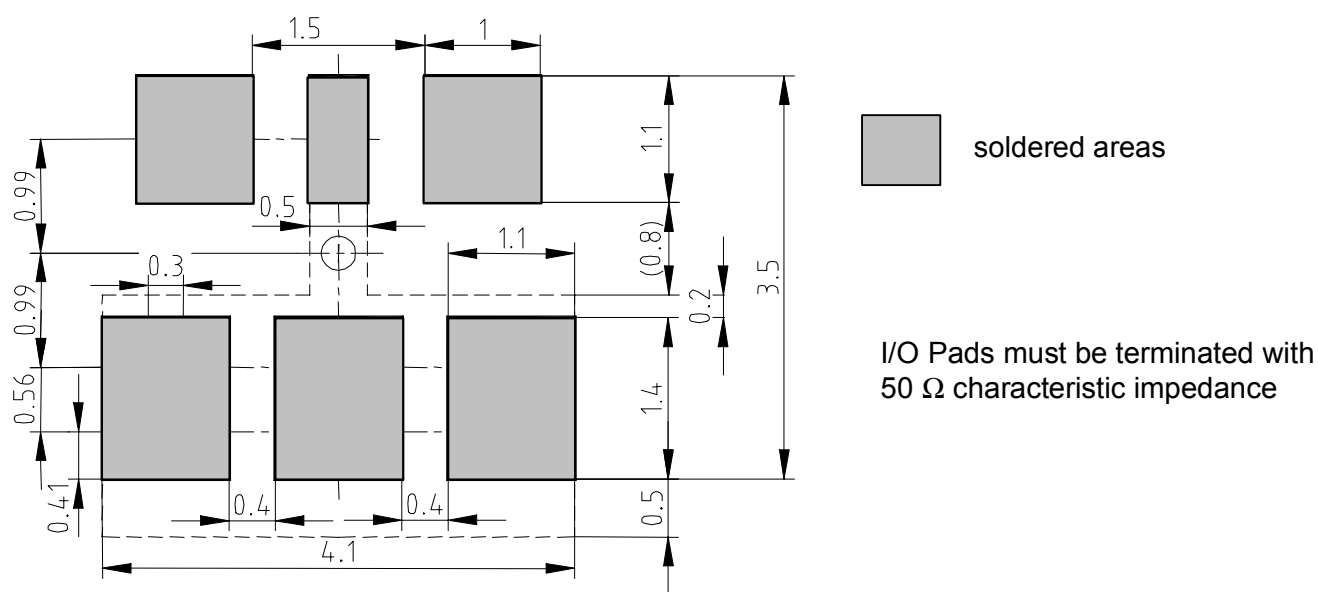
Preliminary datasheet

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



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Characteristics

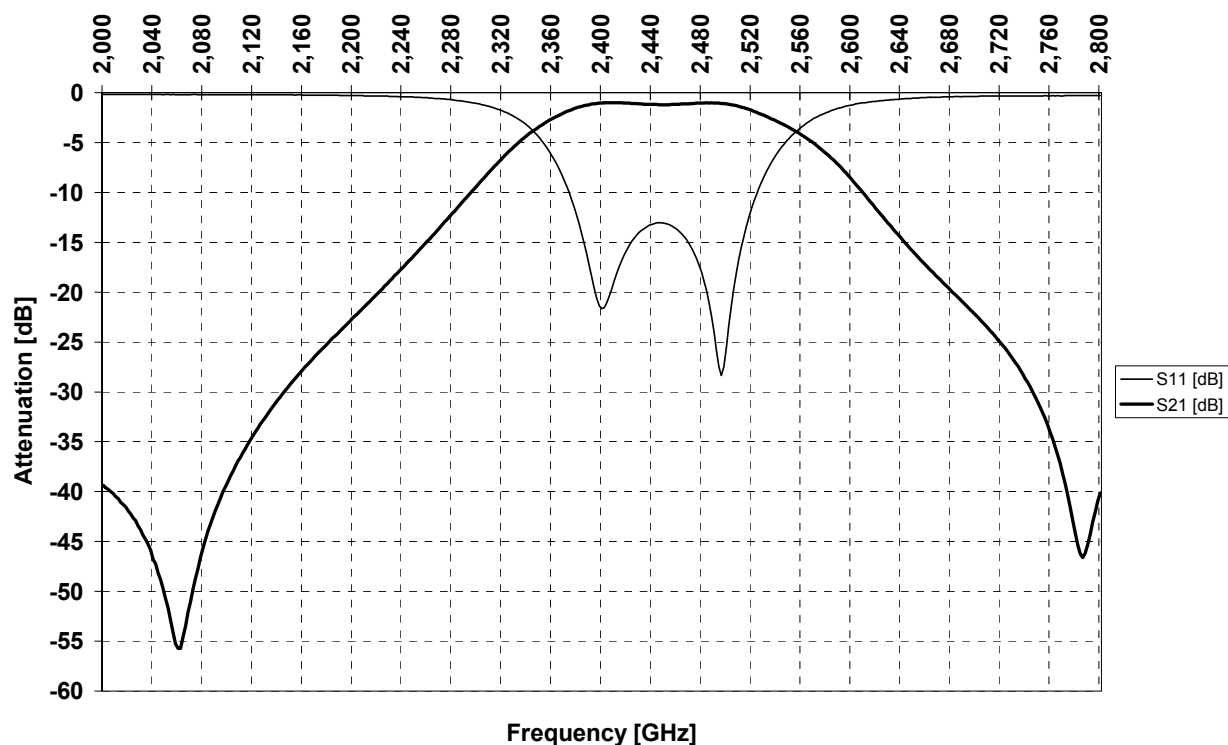
		min.	typ.	max.	
Center frequency	f_c	-	2.45	-	GHz
Insertion loss	α_{IL}		0.8	1.2	dB
Passband	B	100			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		0.4	0.8	dB
Standing wave ratio	SWR		1.5	2.0	
Impedance	Z		50		Ω
Attenuation					
	at 2150 MHz	25	30		

Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	T_{op}	- 20 / + 85	°C

Typical passband characteristic

S21211.DOC



Preliminary datasheet

Processing information

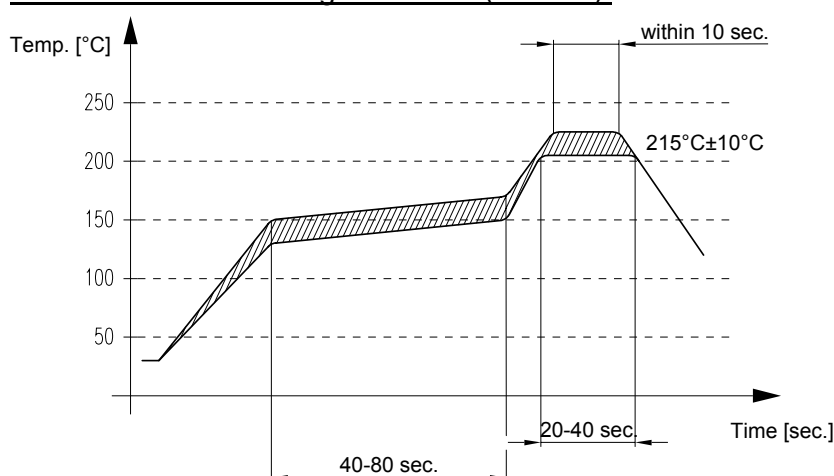
ZNr.: 527 (FILT95_2)

- 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

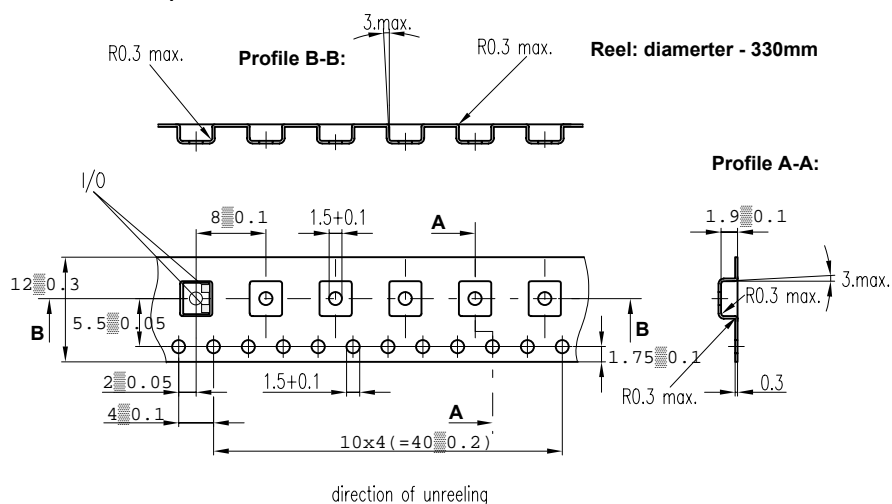
Recommended soldering conditions (infrared):



LOETPROF.DOC

Delivery mode

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



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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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