

### Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO<sub>3</sub> ( $\epsilon_r = 88$  /  $TC_f = 0 \pm 10$  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

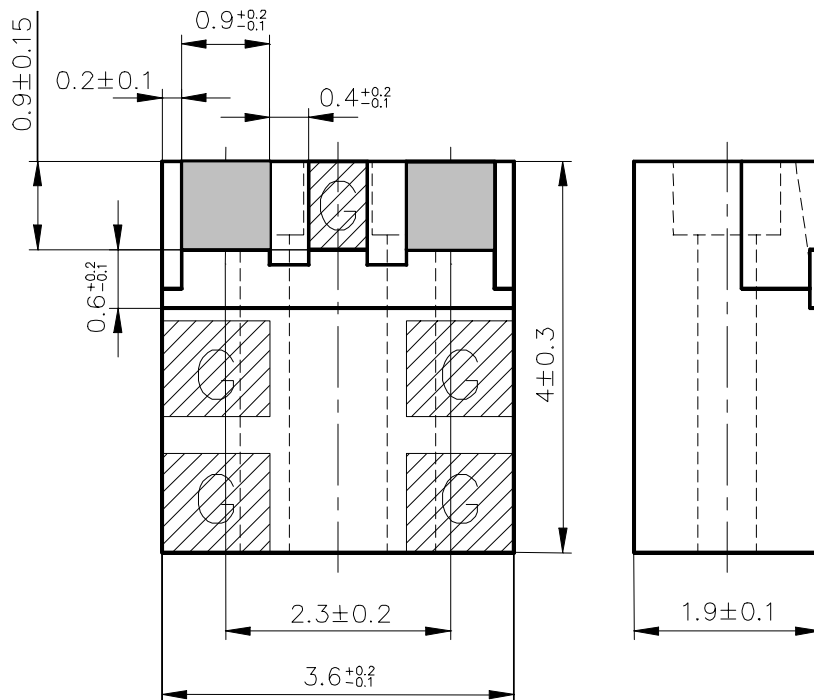
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Preliminary Datasheet

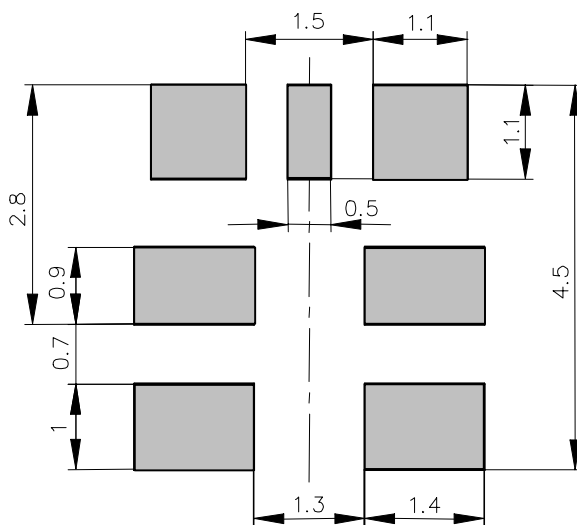
Component drawing



View from below onto the solder terminals and view from beside

S2D231\_210600.DWG→WMF

Recommended footprint



FPS2D231\_210600.DWG→WMF

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Preliminary Datasheet

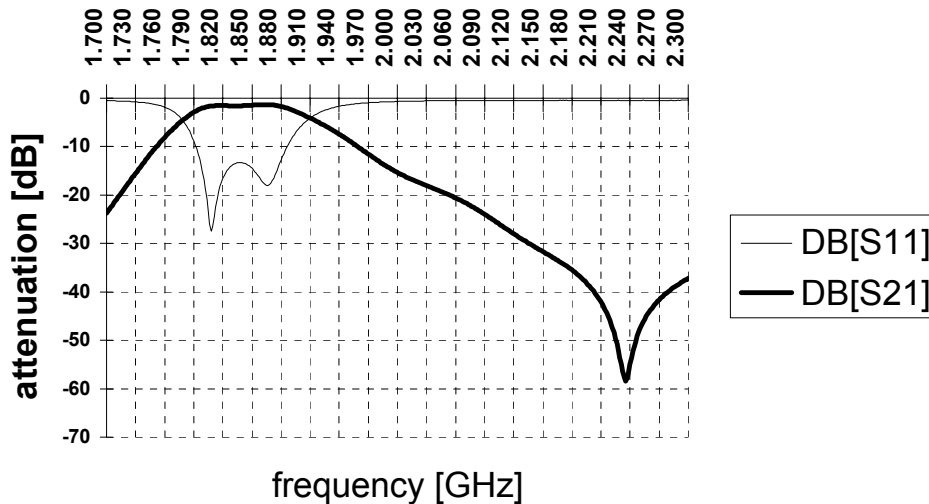
Characteristics

		min.	typ.	max.	
Center frequency	$f_C$	-	1842.5	-	MHz
Insertion loss	$\alpha_{IL}$		1.1	1.5	dB
Passband	$B$	75			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		0.3	0.5	dB
Standing wave ratio	SWR		1.5	2.0	
Impedance	$Z$		50		$\Omega$
Power	$P$			1.0	W
Attenuation	at DC to 1430 MHz at 1430 to 1705 MHz at 1705 to 1785 MHz at 1920 to 1980 MHz at 1980 MHz at 3500 MHz at 3975 to 4200 MHz	$\alpha$	32	35	dB
			15	17	dB
			2.5	3	dB
			2.5	3	dB
			10	12	dB
			12	13	dB
			4	5	dB

Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	$T_{Op}$	- 20 / + 80	°C

Typical Passband Characteristics



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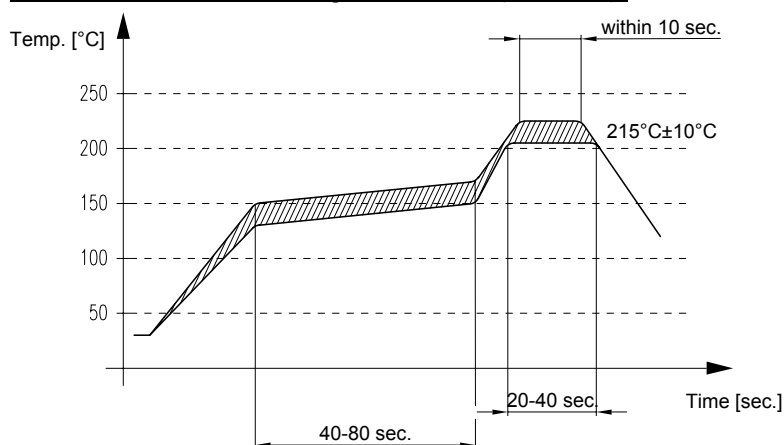
**Processing information**

ZNr.: 577 (FILT95\_2)

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

**Soldering requirements**

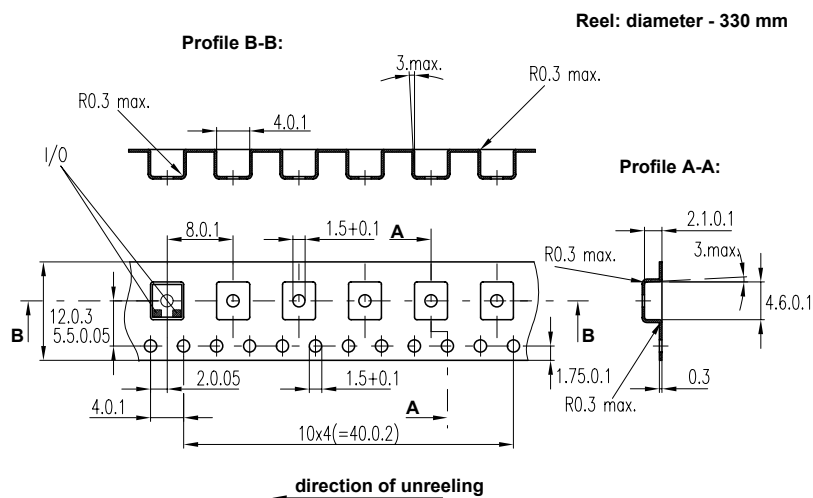
Soldering type	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	°C °C

**Recommended soldering conditions (infrared):**


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**Delivery mode**

- Blister tape to IEC 286-3, polyester, grey



TAPS2D23.DOC

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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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