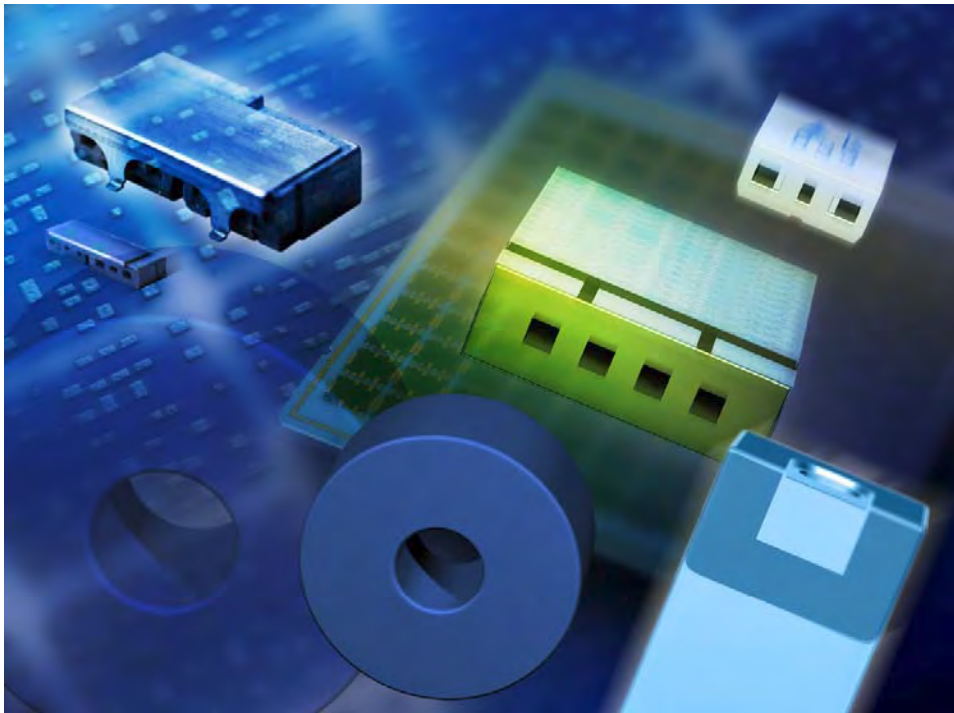


Datasheet Standard

**Features**

- SMD filter consisting of coupled resonators with stepped impedances
- $(\text{NdBa})\text{TiO}_3$ ($\epsilon_r = 88 / TC_f = 0 \pm 10 \text{ ppm/K}$) 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

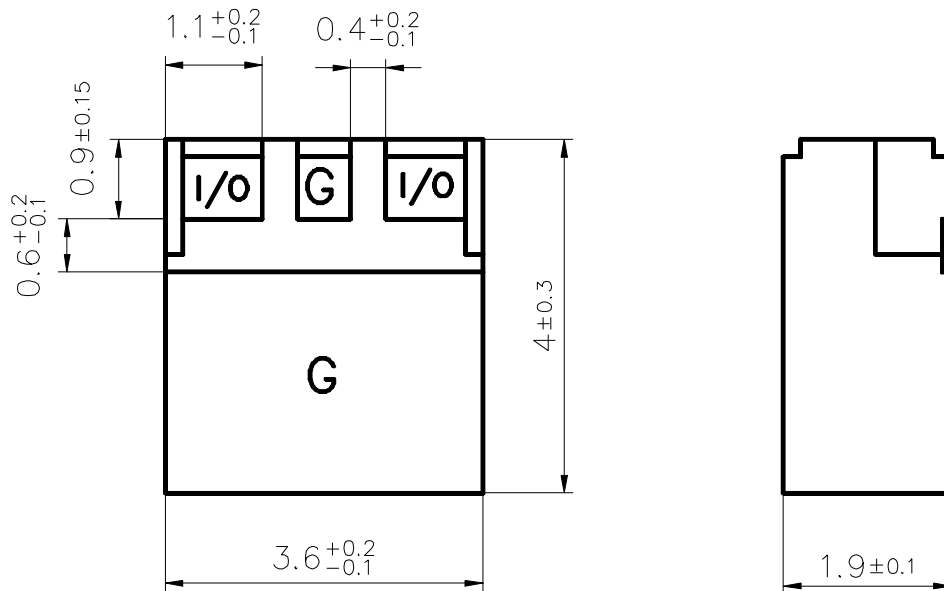
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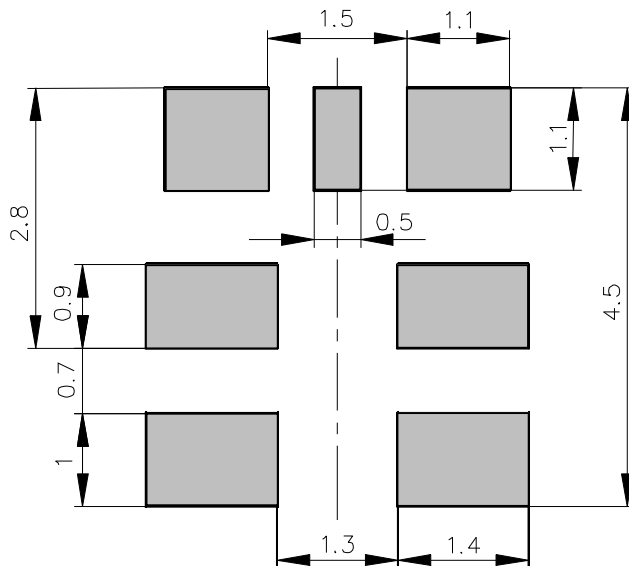
Datasheet Standard

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



FPS2D231 210600.DWG→WMF

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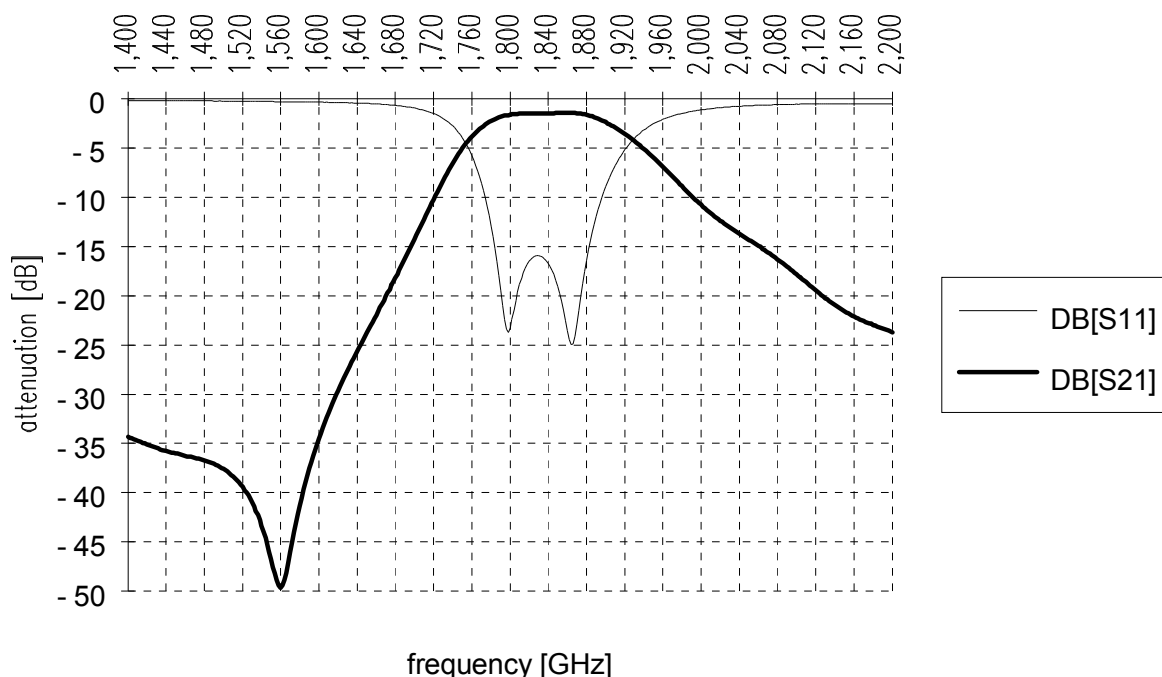
Characteristics

		min.	typ.	max.	
Center frequency	f_c	-	1842.5	-	MHz
Insertion loss	$\alpha_{ L}$		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		Ω
Power	P			1.0	W
Attenuation	at DC to 1500 MHz at 1500 to 1705 MHz at 1705 to 1785 MHz at 1980 to 3500 MHz	α	32	35	dB
		α	15	17	dB
		α	2.5	3	dB
		α	10	15	dB

Maximum ratings

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

Typical passband characteristic



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Datasheet Standard

Processing information

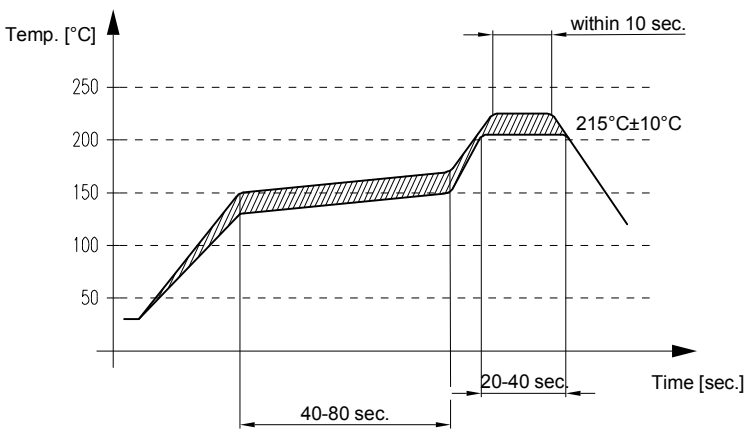
ZNr.: 566 (FILT95_2)

- 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):

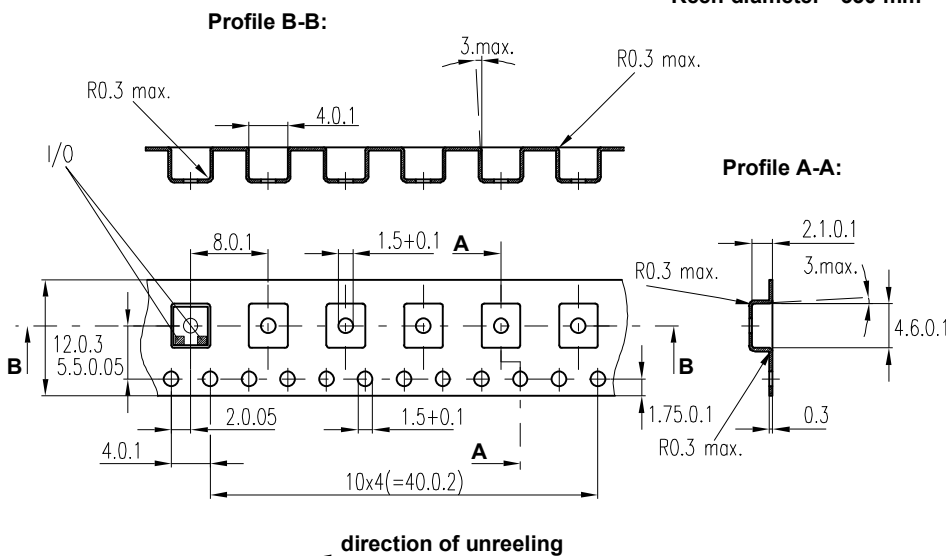


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Delivery mode

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

Reel: diameter - 330 mm



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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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