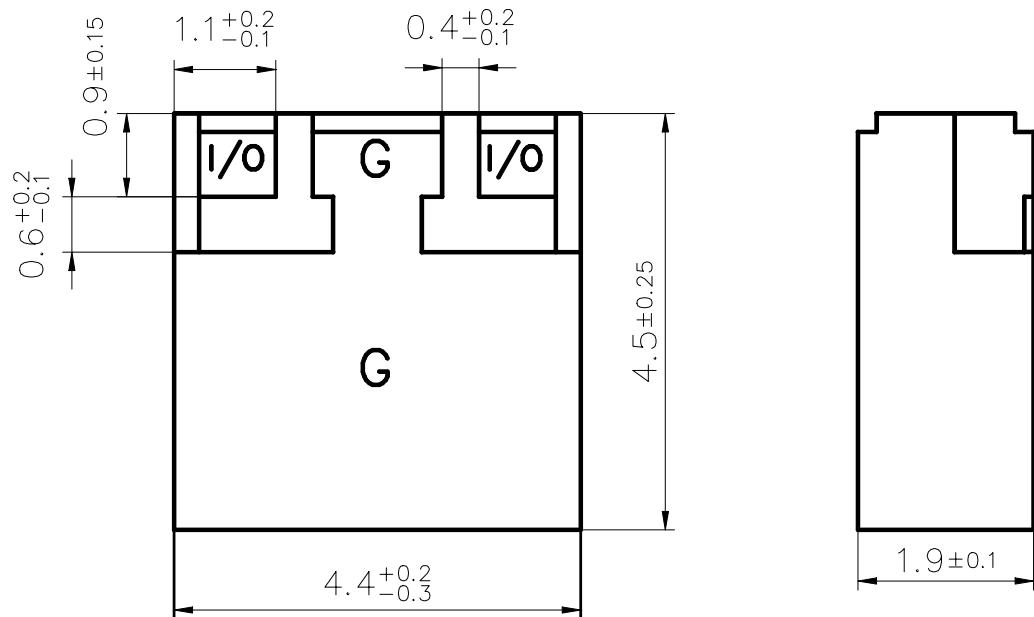


Features

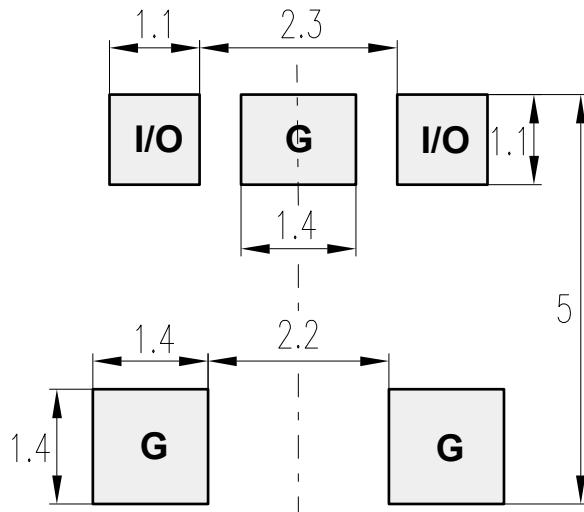
- SMD filter consisting of coupled resonators with stepped impedances
- $(\text{NdBa})\text{TiO}_3$ ($\epsilon_r = 88$ / $TC_f = 0 \pm 10 \text{ ppm/K}$) with a coating of copper ($10\mu\text{m}$) and tin ($>5\mu\text{m}$)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

Index

Page 2	<ul style="list-style-type: none">● Component drawing● Recommended footprint
Page 3	<ul style="list-style-type: none">● Characteristics● Maximum ratings● Typical passband characteristic
Page 4	<ul style="list-style-type: none">● Processing information● Soldering requirements● Delivery mode

Preliminary datasheet
Component drawing


View from below onto the solder terminals and view from beside

Recommended footprint


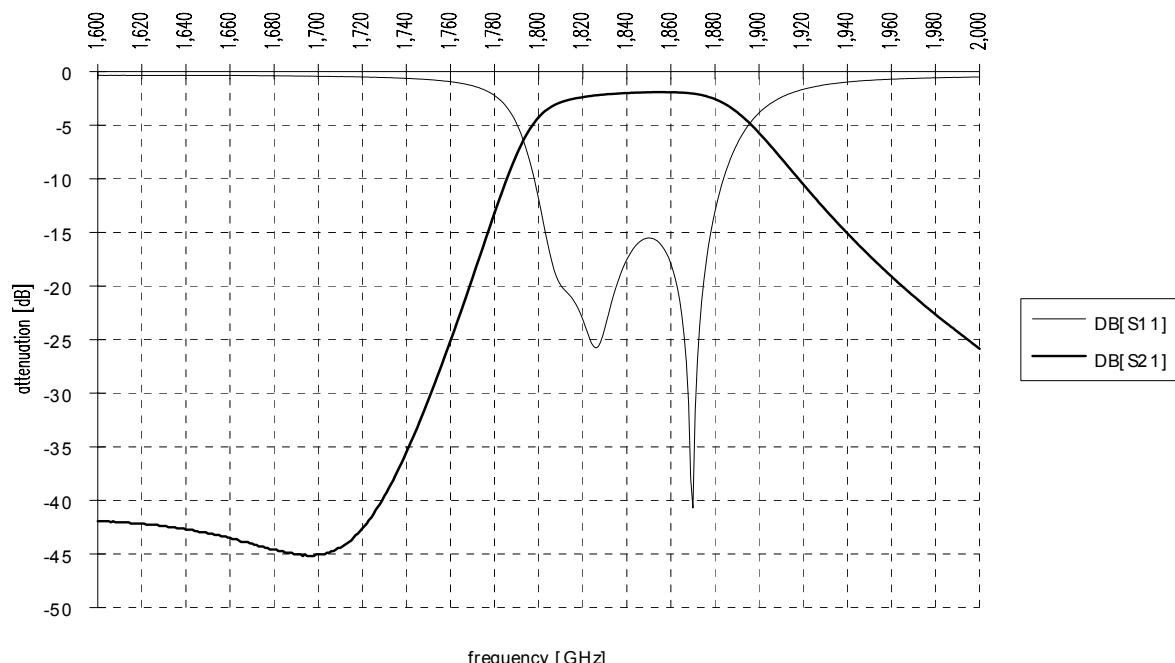
FPS3P21X.DOC

Preliminary datasheet
Characteristics

		min.	typ.	max.	
Center frequency	f_C	-	1842.5	-	MHz
Insertion loss	α_{IL}		2.8	3.2	dB
Passband	B	75			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		1.2	1.5	dB
Standing wave ratio	SWR		1.4	2.0	
Impedance	Z		50		Ω
Attenuation	α				
at DC to 1600 MHz		35	40		dB
at 1785 MHz		10	12		dB
at 1920 MHz		10	12		dB
at 2000 to 2500 MHz		20	30		dB

Maximum ratings

IEC climatic category (IEC 68-1)	- 40/+ 90/56	
Operating temperature	T_{op} -25 / +75	°C

Typical passband characteristic


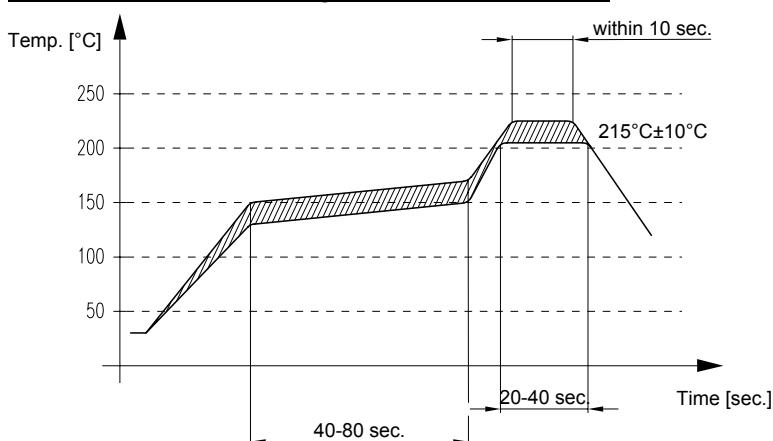
Preliminary datasheet
Processing information

ZNr.: 550 (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

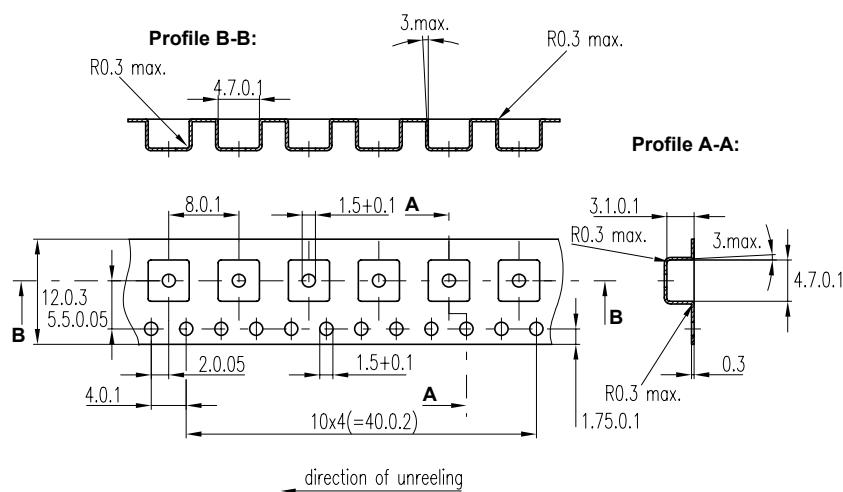
Recommended soldering conditions (infrared):


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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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