

Features

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

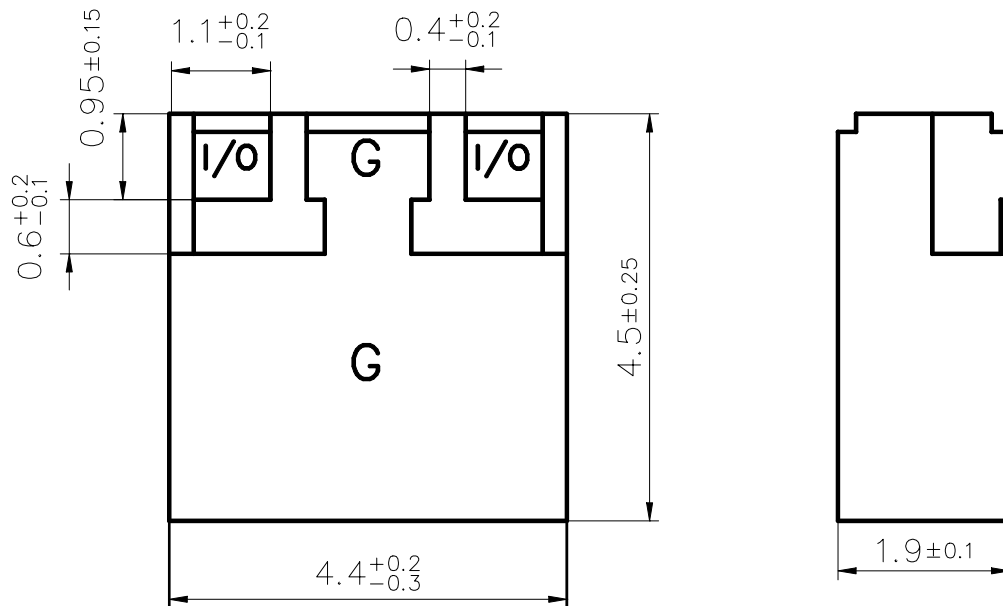
Index

- Page 2
- Component drawing
 - Recommended footprint
- Page 3
- Characteristics
 - Maximum ratings
 - Typical passband characteristic
- Page 4
- Processing information
 - Soldering requirements
 - Delivery mode

ISSUE DATE	26.05.03	ISSUE	P9	PUBLISHER	SAW MWC PD F	PAGE	1/4
------------	----------	-------	----	-----------	--------------	------	-----

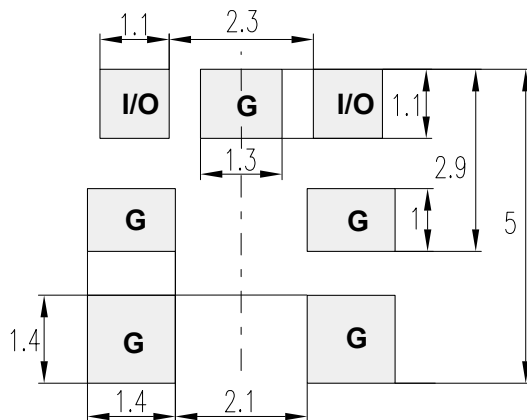
Preliminary Datasheet

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



FPS3P21Y.DOC

ISSUE DATE	26.05.03	ISSUE	P9	PUBLISHER	SAW MWC PD F	PAGE	2/4
------------	----------	-------	----	-----------	--------------	------	-----

Preliminary Datasheet

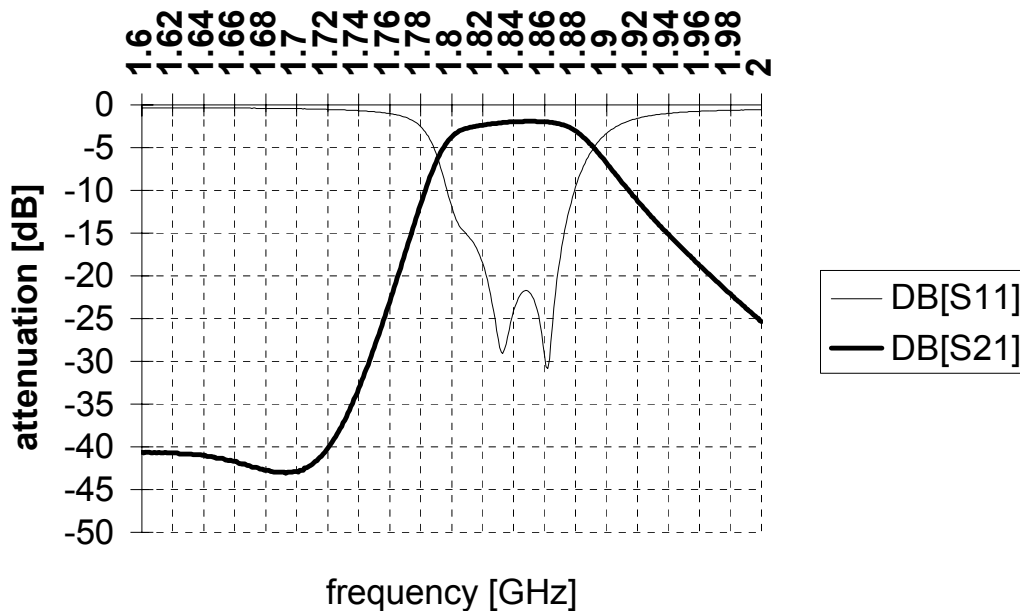
Characteristics (items marked with * must still be correlated to customer print, top surface may have additional contact to ground)

		min.	typ.	max.	
Center frequency	f_c	-	1842.5	-	MHz
Insertion loss	α_{II}		2.3	2.8	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 1430 MHz	38	42		dB
	at 1430 to 1742 MHz	18	23		dB
	at 1785 MHz	8	9		dB
	at 1920 to 1942 MHz	10	12		dB
	at 1942 to 2000 MHz	13	16		dB
	at 2000 to 2245 MHz	24	30		dB
	at 2245 to 3000 MHz	15	18		dB

Maximum ratings

IEC climatic category (IEC 68-1)		- 40 / + 90/56	
Storage temperature	T_{st}	- 40 / + 85	
Operating temperature	T_{op}	- 25 / + 75	°C

Typical Passband Characteristics



ISSUE DATE	26.05.03	ISSUE	P9	PUBLISHER	SAW MWC PD F	PAGE	3/4
------------	----------	-------	----	-----------	--------------	------	-----

Preliminary Datasheet

Processing information

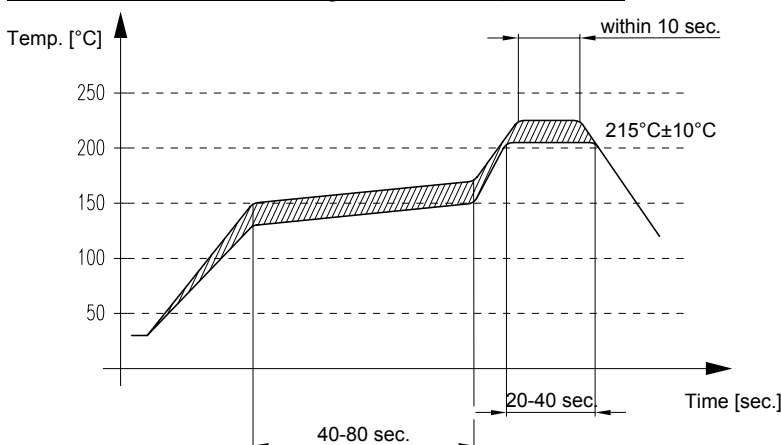
ZNr.: 452 (FILT95_2)

- 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):

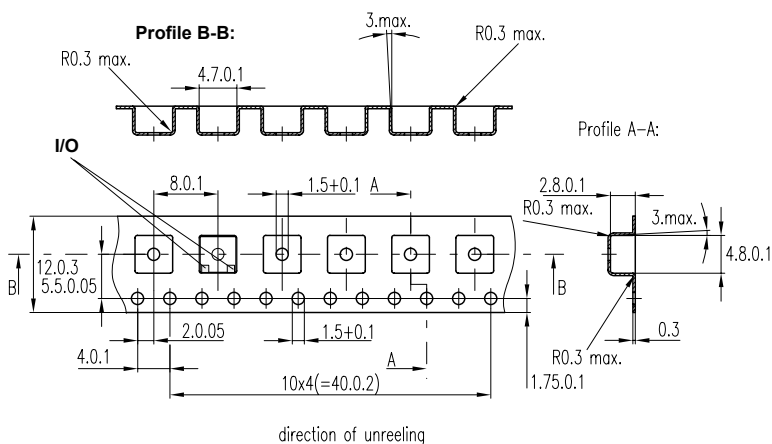


LOETPROF.DOC

Marking

H475+Delivery Week

Reel: diameter - 330 mm



© EPCOS AG 2001. All Rights Reserved. Reproduction, publication and dissemination of this document and its contents, in whole or in part, without the prior express consent of EPCOS AG is prohibited.

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.

ISSUE DATE	26.05.03	ISSUE	P9	PUBLISHER	SAW MWC PD F	PAGE	4/4
------------	----------	-------	----	-----------	--------------	------	-----