



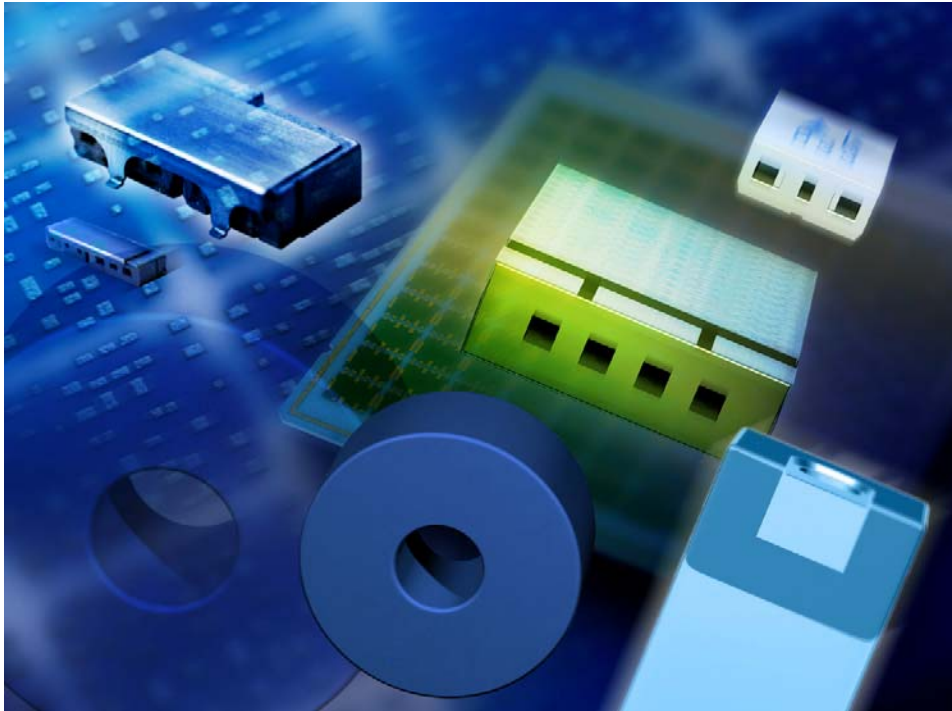
## Series/Type: E375

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B69812N1847E375		06.07.2007	31.01.2008	30.04.2008

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).

Data Sheet



**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

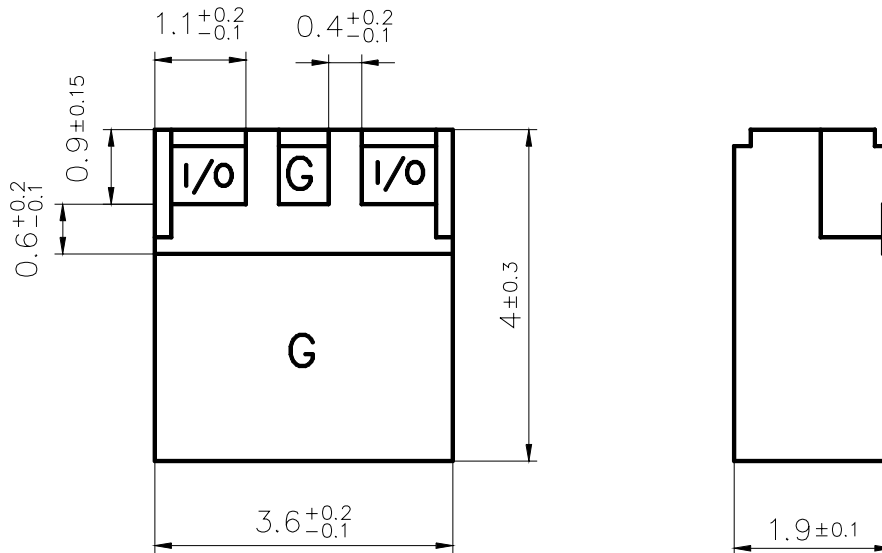
**Index**

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

ISSUE DATE	09.03.04	ISSUE	B	PUBLISHER	SAW MWC PD	PAGE	1/4
------------	----------	-------	---	-----------	------------	------	-----

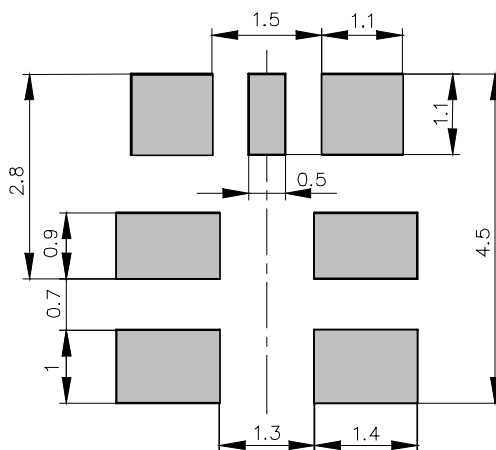
Data Sheet

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



Data Sheet

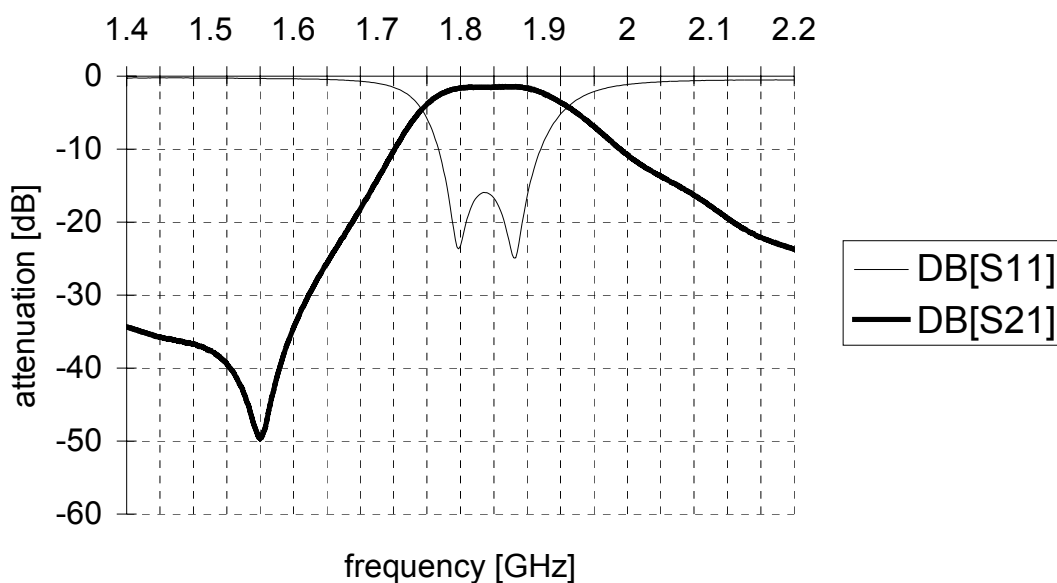
Characteristics

		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 1500 MHz at 1500 to 1705 MHz at 1705 to 1785 MHz at 1980 to 3500 MHz	$\alpha$	32	35	dB
		$\alpha$	15	17	dB
		$\alpha$	2.5	3	dB
		$\alpha$	10	15	dB

Maximum ratings

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

Typical passband characteristic



Data Sheet

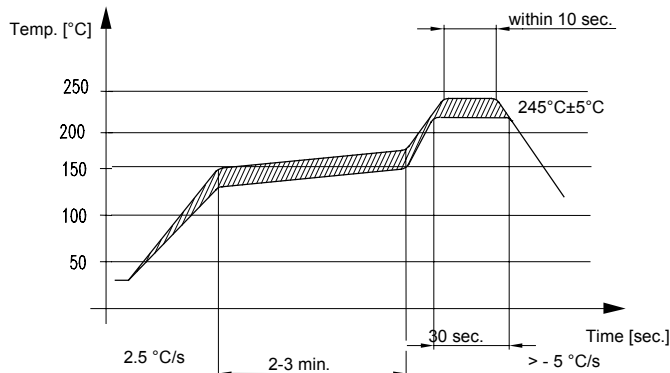
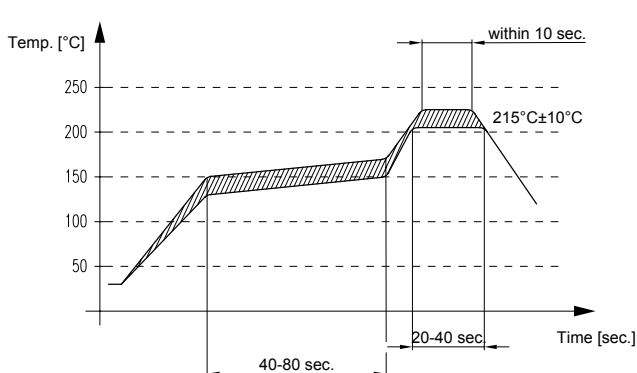
Processing information

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

Soldering Requirements

	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	260 (max. 2 sec.) 250 (max. 10 sec.)	$^{\circ}\text{C}$ $^{\circ}\text{C}$

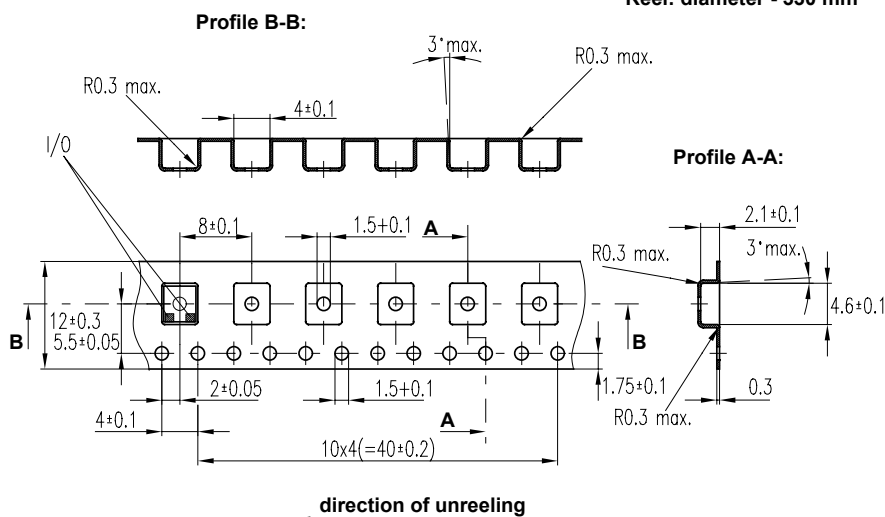
Recommended soldering conditions (infrared):



Delivery mode

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

Reel: diameter - 330 mm



© EPCOS AG 2001. All Rights Reserved. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent 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	09.03.04	ISSUE	B	PUBLISHER	SAW MWC PD	PAGE	4/4
------------	----------	-------	---	-----------	------------	------	-----