





# THT COMMON MODE CHOKES - TWO PHASE

## 3000Vrms Isolation - PB01XX Series



-  **Height:** 38.8mm (Package 1)  
43.2mm (Package 2)
-  **Footprint:** 35.6 x 15.6mm (Package 1)  
45.7 x 21.6mm (Package 2)
-  **Current Range:** up to 23.4Adc
-  **Dielectric strength:** 3000Vrms (with 3.0mm creepage)

### Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

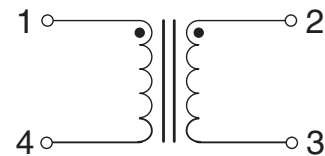
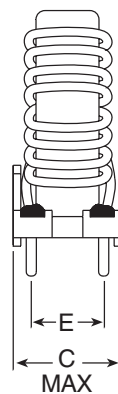
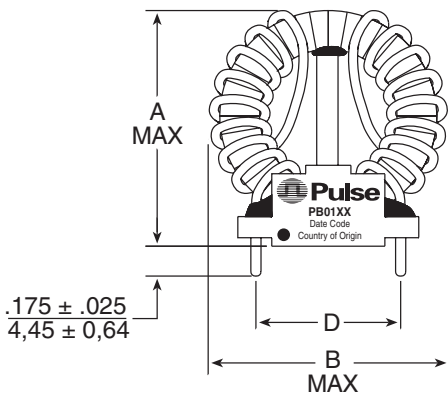
Part Number	Rated* RMS Current (Amps)	Nominal Inductance (Reference Only) (20kHz, 0.02V) (μH)	Impedance (Ω MIN Spec)						DCR MAX (each wdg.) (mΩ)	SRF MIN (MHz)	Package Number
			1MHz	5MHz	10MHz	30MHz	50MHz	100MHz			
PB0168	5.5	144.5	470	3100	1750	475	275	100	30	4.15	1
PB0172	8.1	240	950	3150	1250	380	220	90	25	2.75	2
PB0167	8.3	115	370	1100	410	265	210	115	13	3.00	1
PB0166	12.2	46	200	950	750	340	210	95	6.0	4.80	1
PB0171	12.2	150	700	2800	1350	400	220	80	11	3.80	2
PB0165	17.2	32.4	100	500	690	350	230	90	3.0	7.80	1
PB0170	17.2	95	380	2300	1300	360	200	85	5.5	4.60	2
PB0169	23.4	57.1	200	1200	1800	420	235	100	3.0	6.00	2

\*Rated RMS current for 40°C temperature rise.

### Mechanical

### Schematic

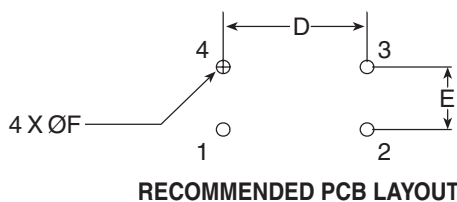
#### PB01XX



**PKG1**      **PKG2**  
 Weight.....27.5 grams .....54.5 grams  
 Tray.....30/tray .....20/tray  
 Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified,  
 all tolerances are  $\pm \frac{.010}{0,25}$

#### Recommended Hole Diameter F (inches/mm)

PB0165	.085 / 2.16
PB0166	.070 / 1.78
PB0167	.060 / 1.52
PB0168	.060 / 1.52
PB0169	.105 / 2.67
PB0170	.085 / 2.16
PB0171	.070 / 1.78
PB0172	.060 / 1.52



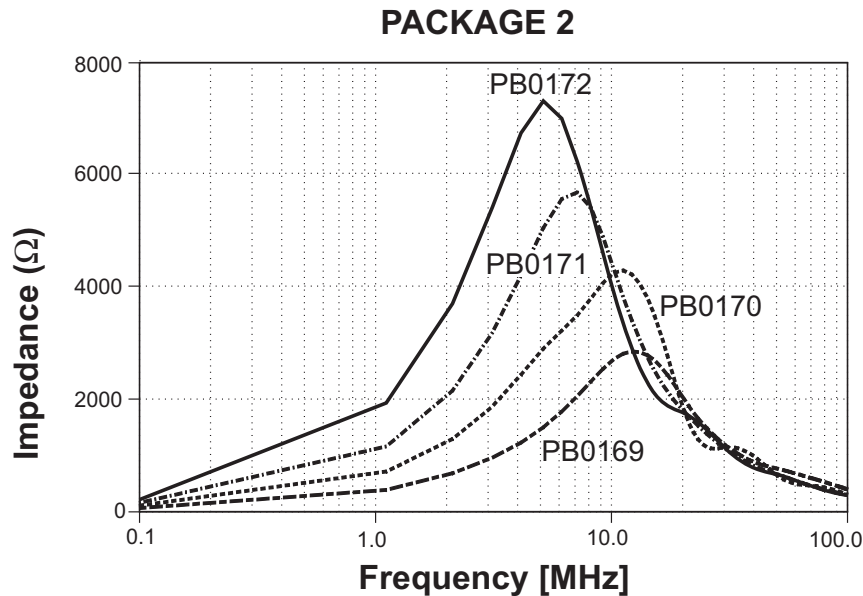
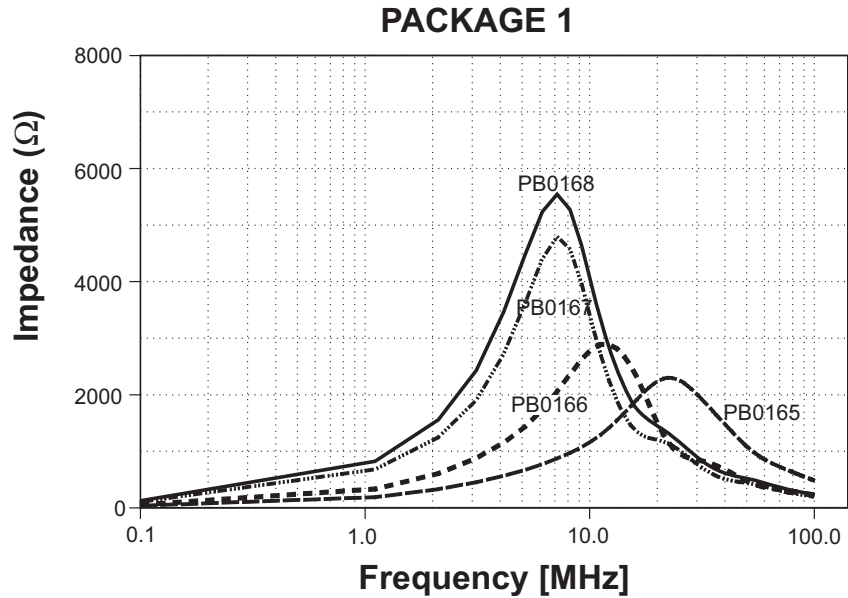
PKG #	A	B	C	D	E	F
1	1.450	1.400	.615	.800	.400	(See Chart →)
	38,83	35,56	15,62	20,32	10,16	
2	1.700	1.800	.850	.900	.600	(See Chart →)
	43,18	45,72	21,59	22,86	15,24	

# THT COMMON MODE CHOKES - TWO PHASE

## 3000Vrms Isolation - PB01XX Series



### IMPEDANCE CURVES



#### For More Information:

**Pulse Worldwide Headquarters**  
12220 World Trade Drive  
San Diego, CA 92128  
U.S.A.  
[www.pulseeng.com](http://www.pulseeng.com)  
TEL: 858 674 8100  
FAX: 858 674 8262

**Pulse Northern Europe**  
3 Huxley Road  
Surrey Research Park  
Guildford, Surrey GU2 5RE  
United Kingdom  
TEL: 44 1483 401700  
FAX: 44 1483 401701

**Pulse Southern Europe**  
Zone Industrielle  
F-39270  
Orgelet  
France  
TEL: 33 3 84 35 04 04  
FAX: 33 3 84 25 46 41

**Pulse China Headquarters**  
No. 1  
Industrial District  
Changan, Dongguan  
China  
TEL: 86 769 5538070  
FAX: 86 769 5538870

**Pulse North China**  
Room 1002  
No. 819  
Nanjing West Rd  
Shanghai  
China  
TEL: 86 21 32181071  
FAX: 86 21 32181396

**Pulse South Asia**  
150 Kampong Ampat  
#07-01/02  
KA Centre  
Singapore 368324  
TEL: 65 6287 8998  
FAX: 65 6280 0080

**Pulse North Asia**  
3F-4, No. 81, Sec. 1  
Hsin Tai Wu Road  
Hsi-Chih  
Taipei Hsien  
Taiwan  
TEL: 886 2 26980228  
FAX: 886 2 26980948

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.  
© Copyright, 2005. Pulse Engineering, Inc. All right reserved.