





# SURFACE MOUNT COMMON MODE CHOKES

## Suited for LAN and Telecom Applications



-  Reduces radiated EMI emissions
-  Filters common mode noise for EMI reduction
-  Common mode attenuation from 100 kHz to 1 GHz
-  Peak solder temperature ratings per table 5-2 in IPC/JEDEC J-STD-020

### Electrical Specifications @ 25°C

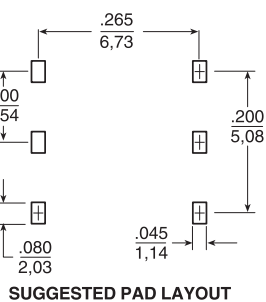
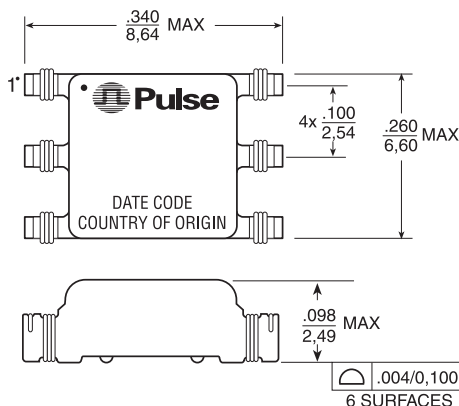
Part Number	No. of Ports	Primary Inductance OCL (μH MIN)	Common Mode Attenuation (db TYP)									DCR (Ω MAX)	Page Number Mech & Schem
			100 KHz	1 MHz	10 MHz	30 MHz	50 MHz	100 MHz	300 MHz	500 MHz	1 GHz		
PE-68624NL <sup>2a</sup>	2	47	11	27	40	44	42	36	26	17	—	0.40	2
PE-65855NL <sup>2a</sup>	2	4700	41	43	49	39	34	26	20	20	12	1.0	4
PE-65857NL <sup>2a</sup>	4	22.5	7	20	30	37	38	34	24	13	—	0.22	4
PE-68627NL <sup>2a</sup>	4	24	8	21	32	36	37	36	30	20	—	0.25	4
PE-65854NL <sup>2a</sup>	4	47	3	19	32	36	35	29	12	6	—	0.40	3
PE-67540NL <sup>2a</sup>	4	100	14	33	44	48	49	44	34	29	20	0.60	4
T8008NL <sup>2a</sup>	16	47	7	27	40	44	42	36	26	—	—	0.40	6

1. For Tape & Reel packaging, add suffix "T" to the end of the part number e.g. T8008NLT
2. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

### Mechanical

### Schematic

#### PE-68624NL



Weight ..... 0.17 grams  
Tape & Reel ..... 1500/reel  
Tube ..... 85/tube

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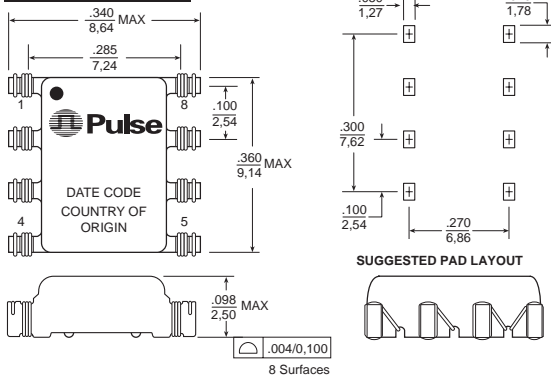
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### Mechanical

### Schematic

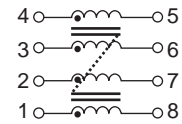
#### PE-65854NL



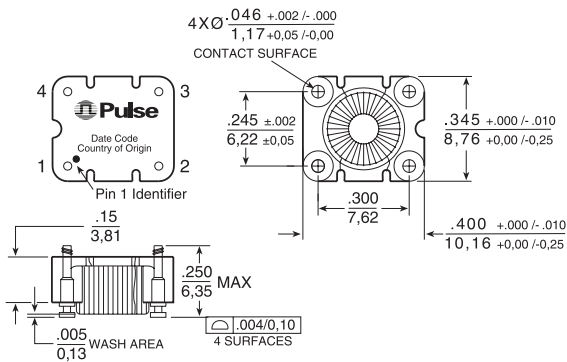
**Dimensions:** Inches  
mm

Unless otherwise specified,  
all tolerances are  $\pm$  .010  
0,25

**Weight** . . . . . 0.3 grams  
**Tape & Reel** . . . . . 1500/reel  
**Tube** . . . . . 60/tube



#### PE-65855NL



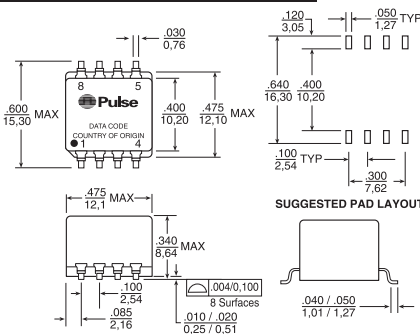
**Dimensions:** Inches  
mm

Unless otherwise specified,  
all tolerances are  $\pm$  .010  
0,25

**Weight** . . . . . 0.69 grams  
**Tape & Reel** . . . . . 800/reel  
**Tube** . . . . . 40 /tube



#### PE-65857NL, PE-67540NL

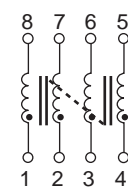


**Dimensions:** Inches  
mm

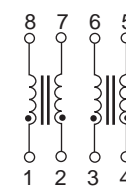
Unless otherwise specified,  
all tolerances are  $\pm$  .010  
0,25

**Weight** . . . . . 2.0 grams  
**Tape & Reel** . . . . . 250/reel  
**Tube** . . . . . 40/tube

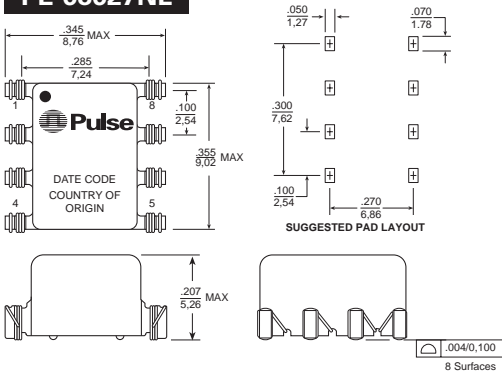
#### PE-65857



#### PE-67540



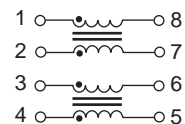
#### PE-68627NL



**Dimensions:** Inches  
mm

Unless otherwise specified,  
all tolerances are  $\pm$  .010  
0,25

**Weight** . . . . . 0.3 grams  
**Tape & Reel** . . . . . 1500/reel  
**Tube** . . . . . 55/tube



# SURFACE MOUNT COMMON MODE CHOKES

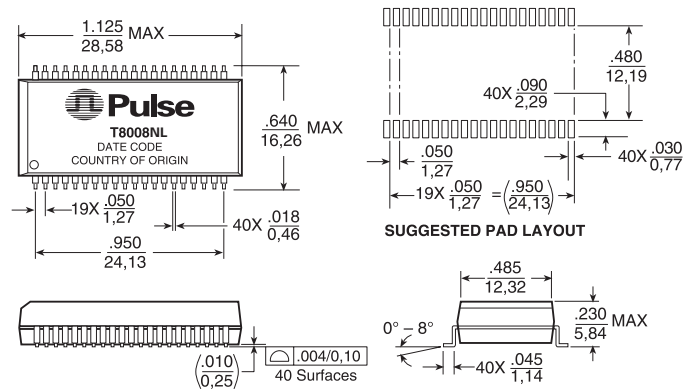
## Suited for LAN and Telecom Applications



Mechanical

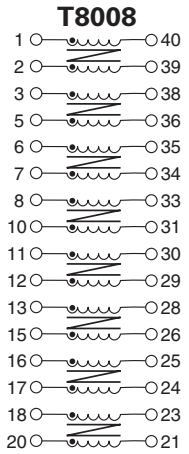
Schematic

### T8008NL



**Dimensions:**  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified,  
all tolerances are  $\pm .010$   
0,25

**Weight** . . . . . 4.0 grams  
**Tape & Reel** . . . . . 250/reel  
**Tube** . . . . . 15/tube



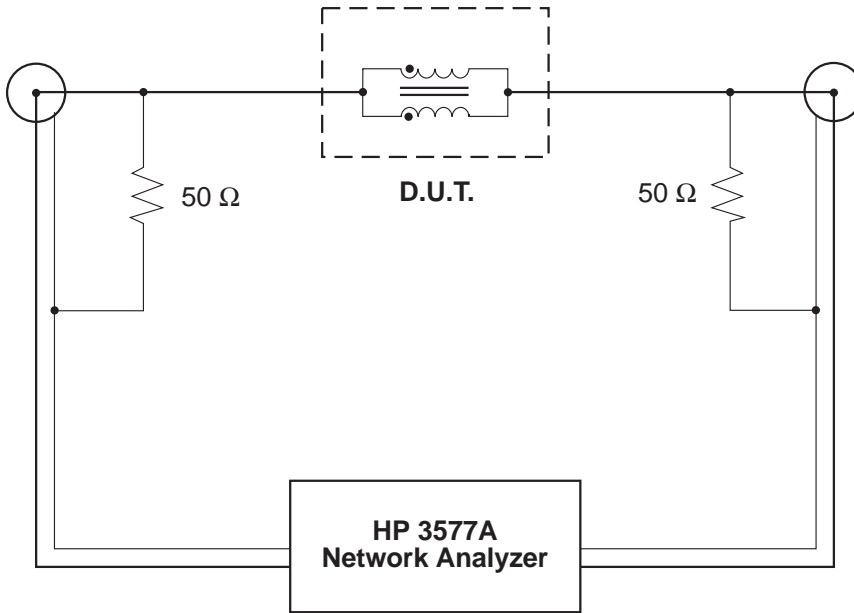
**NOTE:** The common mode test circuit for surface mount is the same as for through hole and is on the back page.

# THROUGH HOLE COMMON MODE CHOKES

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### Common Mode Test Circuit for Surface Mount and Through Hole



#### Test Notes:

1. Network analyzer calibrated to compensate for 50 Ω resistors.
2. All windings on a core are connected in parallel for the test.
3. For multi-core chokes, test data is for one core only. The windings on the other core(s) are left unconnected (i.e. open).

#### For More Information:

Pulse Worldwide Headquarters	Pulse Europe	Pulse China Headquarters	Pulse North China	Pulse South Asia	Pulse North Asia
12220 World Trade Dr. San Diego, CA 92128 U.S.A.	Einsteinstrasse 1 D-71083 Herrenberg Germany	B402, Shenzhen Academy of Aerospace Technology Bldg. 10th Kejinan Rd. High-Tech Zone Nanshan District Shenzhen, PR China 518057	Room 1503 XinYin Building No. 888 YiShan Rd. Shanghai 200233 China	135 Joo Seng Rd. #03-02 PM Industrial Bldg. Singapore 368363	No. 26, Kao Ching Rd. Yang Mei Chen Taoyuan Hsien Taiwan R. O. C.
<b>www.pulseeng.com</b> Tel: 858 674 8100 Fax: 858 674 8262	Tel: 49 7032 7806 0 Fax: 49 7032 7806 135	TEL: 86 755 33966678 FAX: 86 755 33966700	Tel: 86 21 54643211/2 Fax: 86 21 54643210	TEL: 65 6287 8998 FAX: 65 6280 0080	Tel: 886 3 4643715 Fax: 886 3 4641911

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