

# Surface Mount Slic Package Common Mode Chokes

Suited for LAN and Telecom WAN Applications



- Ⓢ Pulse Patented SLIC SMD LPC package
- Ⓢ Reduces radiated EMI emissions
- Ⓢ Filters common mode noise for EMI reduction
- Ⓢ Common mode attenuation from 100 KHz to 1 GHz
- Ⓢ RoHS peak reflow solder temperature 245°C

## Electrical Specifications @ 25°C

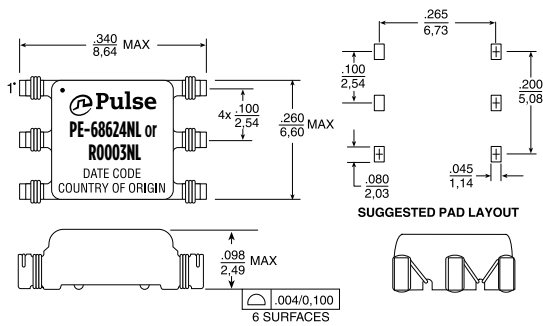
Part Number <sup>1</sup>	No. of Lines	Primary Inductance OCL (μH MIN)	Common Mode Attenuation (dB TYP)									DCR (Ω MAX)	Primary Application
			100 KHz	1 MHz	10 MHz	30 MHz	50 MHz	100 MHz	300 MHz	500 MHz	1 GHz		
PE-68624NL	2	47	11	27	40	44	42	36	26	17	—	0.40	WAN
B4003NL	2	4700	46	41	48	38	33	21	22	23	17	1.00	VDSL
R0003NL	3	20	6	14	27	27	30	30	30	28	25	0.40	LAN
PE-65627NL	4	24	8	21	32	36	37	36	30	20	—	0.25	WAN
PE-65854NL	4	47	3	19	32	36	35	29	12	6	—	0.40	WAN

- For Tape & Reel packaging, add suffix "T" to the end of the part number e.g. R0003NLT
- MSL = Moisture Sensitivity Level = 1

## MECHANICALS

## SCHEMATICS

### PE-68624NL, R0003NL



Dimensions: Inches  
mm  
Unless otherwise specified,  
all tolerances are ± .010  
0,25

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

### R0003NL

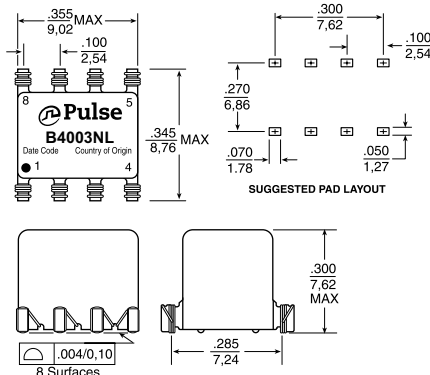


Connect unused pin to logic ground for optimum performance.

### PE-68624NL



### B4003NL



Dimensions: Inches  
mm  
Unless otherwise specified,  
all tolerances are ± .010  
0,25

Weight . . . . . 0.70 grams  
Tape & Reel . . . . . 400/reel  
Tube . . . . . 50/tube



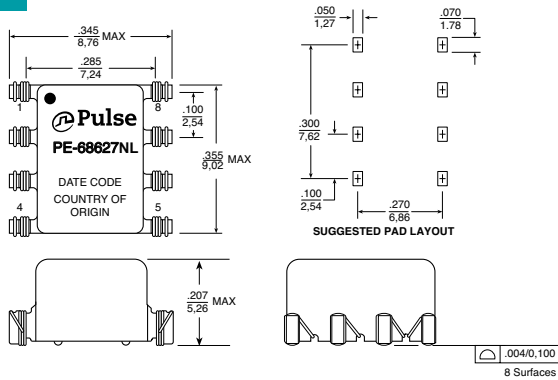
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## MECHANICALS

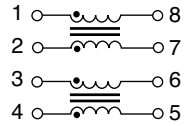
## SCHEMATICS

### PE-68627NL

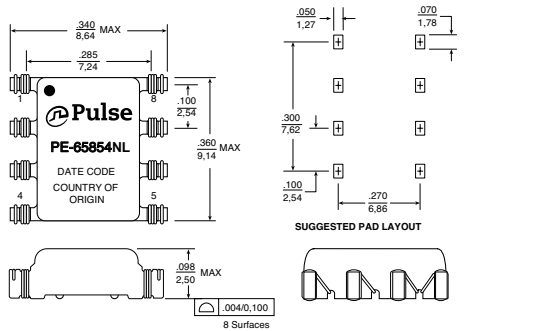


Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0.25}$

Weight . . . . . 0.32 grams  
Tape & Reel . . . . . .850/reel  
Tube . . . . . .45/tube

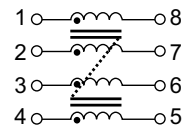


### PE-65854NL

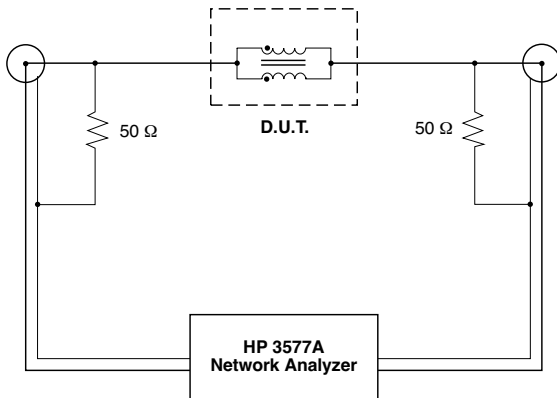


Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0.25}$

Weight . . . . . 0.23 grams  
Tape & Reel . . . . . .1500/reel  
Tube . . . . . .60/tube



## COMMON MODE TEST CIRCUIT FOR SURFACE MOUNT AND THROUGH HOLE



### Test Notes:

1. Network analyzer calibrated to compensate for 50  $\Omega$  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:

Americas - [prodinfonetworkamericas@yageo.com](mailto:prodinfonetworkamericas@yageo.com) | Europe - [prodinfonetworkemea@yageo.com](mailto:prodinfonetworkemea@yageo.com) | Asia - [prodinfonetworkapac@yageo.com](mailto:prodinfonetworkapac@yageo.com)

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