

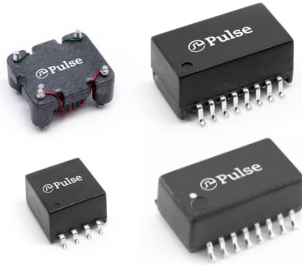


THE DATASHEET OF T8003NL



Surface Mount Common Mode Chokes

Suited for LAN and Telecom WAN Applications



- ⊗ Open MSL1 or moulded MSL4 construction designs available
- ⊗ Reduces radiated EMI emissions and common mode EMC noise
- ⊗ Common mode attenuation from 100 KHz to 1 GHz
- ⊗ Extended Temperature operating range -40 to +85°C
- ⊗ JEDEC - IR Reflow solder peak temperature 245°C
- ⊗ Supplied in Tube or on 13" Tape and Reel

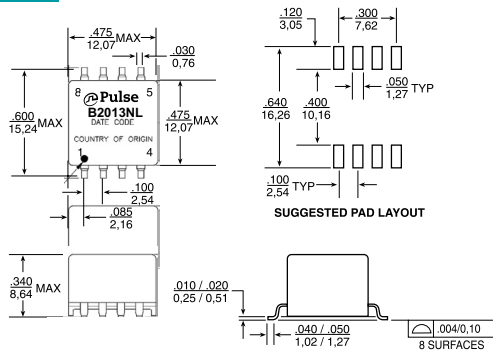
Low Frequency Chokes			Electrical Specifications @ 25°C										
Part Number ¹	No. of Lines	Inductance (µH MIN)	Common Mode Attenuation (dB TYP)									DCR (Ω MAX)	Primary Application
			1 KHz	10 KHz	100 KHz	1 MHz	10 MHz	30 MHz	50 MHz	80 MHz	100 MHz		
PE-65855NL	2	4,700 +/-30%	16	23	41	43	48	39	34	29	26	1.0	WAN / xDSL
B2013NL	2	9,000 +/-30%	26	43	46	47	43	32	25	24	29	1.0	WAN / xDSL
BX8333NL	2	16,000 +/-35%	33	36	38	36	22	15	12	10	8	1.65	WAN / xDSL
BX8333DNL	2	33,000 +/-35%	42	48	46	22	15	12	8	7	6	2.3	WAN / xDSL

1. For Tape & Reel packaging, add suffix "T" to the end of the part number e.g. B2013NLT
All Parts conform to JEDEC-J-STD for Moisture Sensitivity Level 1

MECHANICALS

SCHEMATICS

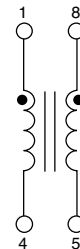
B2013NL



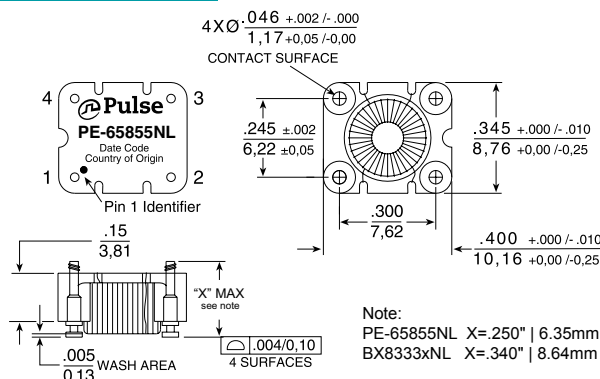
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

Weight 1.28 grams
Tape & Reel250/reel
Tube40 pcs



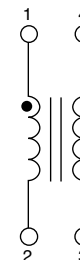
PE-65855NL, BX8333NL, BX8333DNL



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

Weight0.74 grams
Tape & Reel450/reel
Tube40 pcs



Surface Mount Common Mode Chokes

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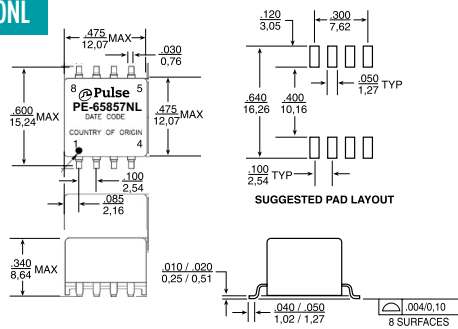
High Frequency Chokes			Electrical Specifications @ 25°C									DCR (Ω MAX)	Primary Application
Part Number ¹	No. of Lines	Inductance (μH MIN)	Common Mode Attenuation (dB TYP)										
			100 KHz	1 MHz	10 MHz	30 MHz	50 MHz	100 MHz	300 MHz	500 MHz	1 GHz		
PE-65857NL	4	22.5	7	20	30	37	38	34	24	13	—	0.22	LAN
T8003NL*	4	33	9	13	32	32	30	27	16	17	13	0.20	WAN
PE-67540NL	4	100	14	33	44	48	49	44	34	29	20	0.60	WAN
Z3Z104SMNL	4	68	8	22	28	28	27	25	20	15	—	0.20	LAN
Z3Z106SMNL	6	68	8	22	29	30	30	29	24	19	—	0.20	LAN
Z3Z105SMNL	8	68	8	24	30	29	27	24	16	11	—	0.20	LAN
PE-69011NL*	8	36	8	24	36	39	35	29	18	11	—	0.35	WAN

1. For Tape & Reel packaging, add suffix "T" to the end of the part number e.g. T8003NLT the exception is Z3Z106SMNL-T
 * All Parts conform to JEDEC-J-STD for Moisture Sensitivity Level 1 with the exception of T8003NL and PE-69011NL which are MSL4

MECHANICALS

SCHEMATICS

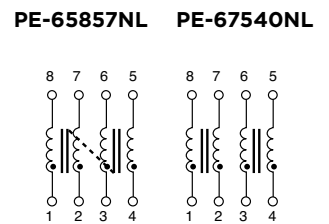
PE-65857NL, PE-67540NL



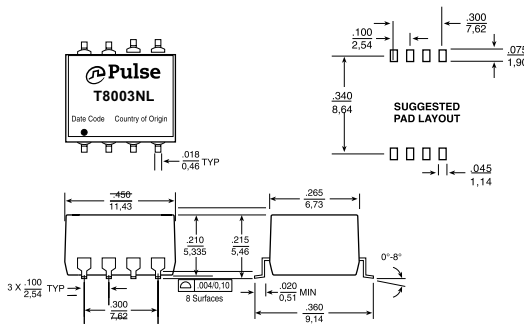
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Weight 1.28 grams
 Tape & Reel 250/reel
 Tube 40 pcs



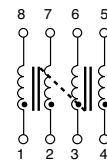
T8003NL



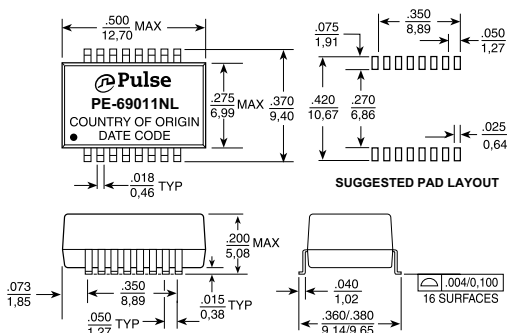
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Weight 0.89 grams
 Tape & Reel 750/reel
 Tube 40 pcs



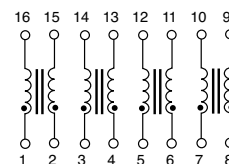
PE-69011NL



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Weight 0.89 grams
 Tape & Reel 850/reel
 Tube 40 pcs



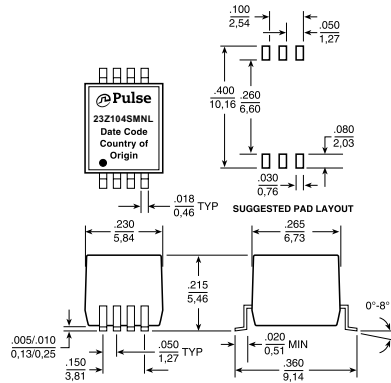
Surface Mount Common Mode Chokes

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MECHANICALS

SCHEMATICS

23Z104SMNL



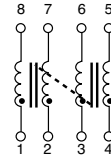
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

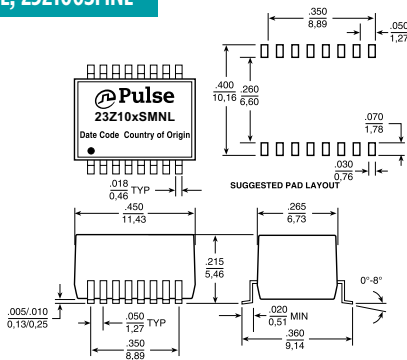
Weight 0.30 grams

Tape & Reel 750/reel

Tube 85 pcs



23Z105SMNL, 23Z106SMNL



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

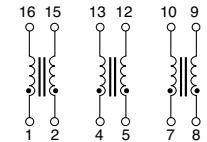
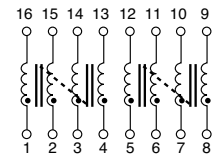
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

Weight 0.60 grams

Tape & Reel 750/reel

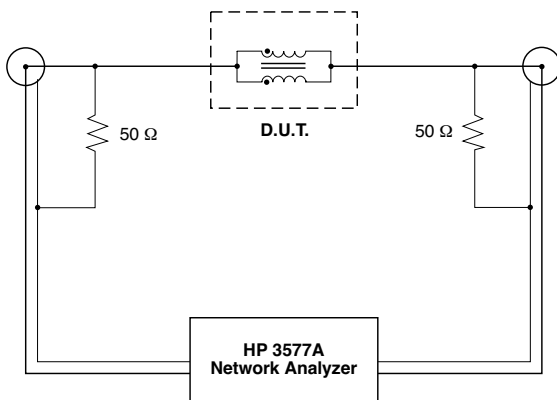
Tube 40/tray

23Z105SMNL



23Z106SMNL

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:

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