Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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SMT POWER INDUCTORS
Toroid - Military/Aerospace POGO Series

Pulse® A TECHNITROL COMPANY

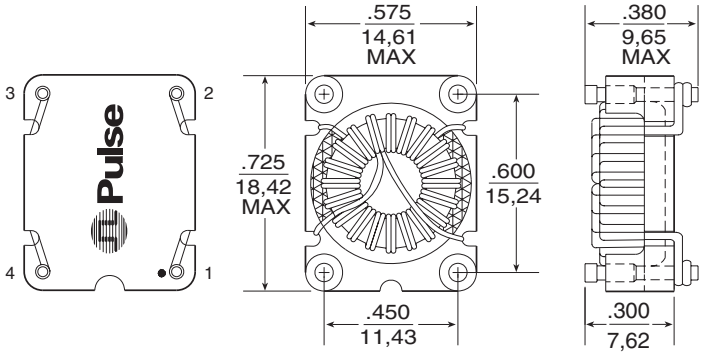
- Ruggedized header with POGO pins for secure board mounting
- **Current Rating:** up to 14.4ADC
- **Inductance Range:** 1.5µH to 139µH

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

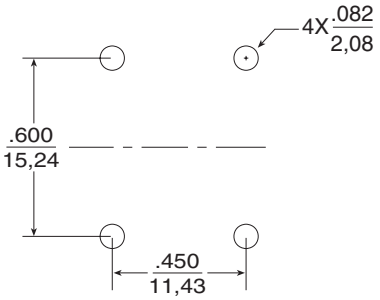
Part [8,9] Number	Inductance @ Irated (µH)	Irated (A)	DCR (TYP) (mΩ)	ET (V-µsec)	Storage Capacity (µJoules)	Inductance @ 0ADC (µH ±20%)	100 Gauss ET_{100} (V-µsec)	1 Amp DC H_1 (Orsted)	Connection
POGO 40									
PL8700	1.5	14.40	4.41	4.80	159.01	2.2	1.71	3.77	Parallel
PL8701	2.4	9.40	6.54	6.00	152.83	3.5	2.14	4.71	Parallel
PL8702	4.2	8.10	10.47	7.85	142.57	5.9	2.78	6.12	Parallel
PL8703	5.8	6.80	14.94	9.05	133.80	7.9	3.21	7.06	Parallel
PL8700	6.1	7.20	17.60	9.60	159.01	9.0	3.42	7.53	Series
PL8704	7.6	5.70	20.99	10.25	124.18	10.1	3.64	8.00	Parallel
PL8701	9.7	5.60	26.20	12.00	152.83	14.0	4.28	9.42	Series
PL8705	12.1	5.20	23.24	13.85	176.62	18.5	4.92	10.83	Parallel
PL8702	17.0	4.10	41.90	15.70	142.57	23.7	5.56	12.24	Series
PL8706	18.0	4.20	38.15	16.50	174.26	27.4	5.99	13.18	Parallel
PL8703	23.1	3.40	59.70	18.10	133.80	31.5	6.42	14.12	Series
PL8707	27.0	3.30	53.21	20.50	169.14	40.5	7.27	16.01	Parallel
PL8704	30.6	2.85	84.00	20.50	124.18	40.5	7.27	16.01	Series
PL8708	34.8	2.30	73.89	22.50	156.47	50.5	8.13	17.89	Parallel
PL8705	48.5	2.70	93.00	27.70	176.62	74.1	9.84	21.66	Series
PL8706	72.0	2.20	152.60	33.00	174.26	109.8	11.98	26.36	Series
PL8708	139.1	1.50	295.60	45.00	156.47	202.2	16.26	35.78	Series
PL8707	108.0	1.77	212.80	41.00	169.14	161.8	14.55	32.01	Series

NOTES:
1. The reference inductance is a typical value at the AC and DC excitation listed.
2. Temperature rise is 55°C in typical buck or boost circuits at 100kHz and with the reference ET applied to the inductor.
3. Total loss in the inductor is 634mWatts for a 55°C temperature rise above ambient.
4. To estimate temperature rise in a given application, determine copper and core losses, divide by 634 and multiply by 50.
5. For the copper loss, calculate $I_{DC}{}^2 X R_N$.
6. For core loss (mW), using frequency (f in Hertz) and operating flux density (B in Gauss), calculate $2.24 \times 10^{-10} \times B^{2.11} \times f^{1.26}$.
7. For flux density (B), calculate ET (V-µsec) for the application, divide by ET_{100} from the table, and multiply by 100.
8. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. PL8700**T**). Pulse complies to industry standard tape and reel specification EIA481.

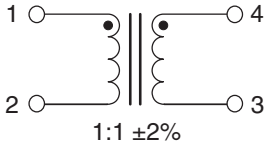
Mechanical



SUGGESTED PAD LAYOUT



Schematic



Pan & Tube 30/tube
Tape & Reel 300/reel
MSL 3
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

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