

COMMON MODE CHOKES

HIGH CURRENT SMT COMMON MODE CHOKES - PA5140/PA5141 SERIES



Pulse expands its range of surface mount common mode chokes with the introduction of the PA5140/41 series. Using the fully automated round wire coil forming technology developed for its existing high current inductor product line these new series offer the highest available current in a surface mount package. Two platforms have been developed, the 18x19x19mm EP18 and the 23x23x23mm EP22 which offer inductances from 110uH to 470uH, with currents up to 32A. These EP cores have been designed around the coil dimension to minimize the component size, offering a higher-density inductance/current solution. The high permeability ferrite material minimizes the number of winding (and therefore the DC resistance) resulting in a much higher current rating than other similarly sized common mode chokes.



FEATURES & BENEFITS

- High Current in compact SMT Packages
- Two sizes: 18x19x19mm and 23x23x23mm
- 1000Vrms Isolation Voltage
- L(uH)/Irat(A): from 110uH/32A to 470uH/18A
- Suitable for high switching frequency applications
- Significant Impedance out to 100Mhz

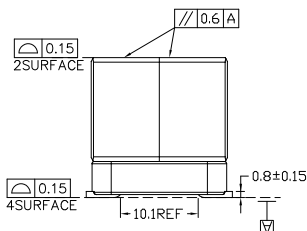
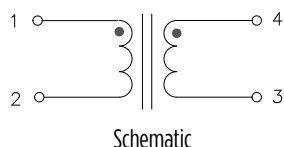
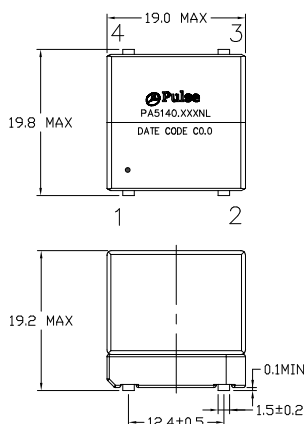
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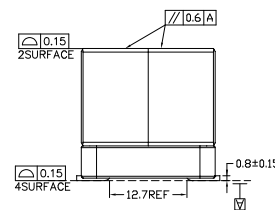
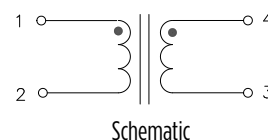
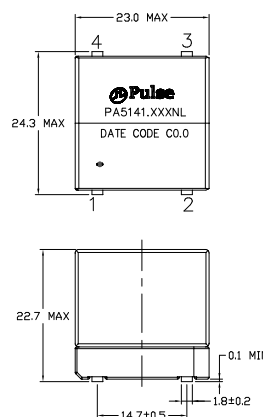
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Inductance (1-2)=(4-3) (uH ±40%)	I _{rated} (A)	Leakage Induc- tance (1-2) with (3-4) shorted (uH TYP)	Capacitance (1,2) to (4,3) (pF TYP)	DCR (1-2)=(4-3) (mΩ)		Self Resonant Frequency (1-2)=(4-3) (MHz TYP)	Impedance at SRF (kΩ TYP)
					TYP	MAX		
PA5140.105NL	154.0	21	0.7	5.0	1.70	2.2	3.30	2.2
PA5140.205NL	220.0	20	1.0	6.1	2.20	2.60	3.66	2.60
PA5140.305NL	305.0	17	1.5	7.2	3.20	3.85	3.00	3.85
PA5140.405NL	400.0	14	2.0	8.2	4.60	5.50	2.84	5.50
PA5141.105NL	110.0	32	0.7	6.5	0.90	1.10	2.82	1.10
PA5141.205NL	190.0	30	0.9	8	1.10	1.35	3.35	1.35
PA5141.305NL	260.0	26	1.3	5.3	1.70	2.10	2.82	2.10
PA5141.405NL	360.0	22	1.8	6	2.40	2.90	2.1	2.90
PA5141.505NL	470.0	18	2.0	5.7	3.50	4.20	2.2	4.20

PA5140.XXXNL



PA5141.XXXNL

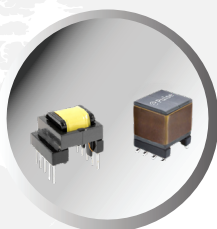


OTHER GREAT PRODUCTS FROM PULSE ELECTRONICS



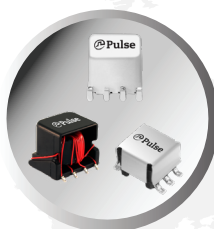
Power Inductors

- Power Bead, Molded, Composite, Drum Core and Toroid Constructions
- Over 100Apk



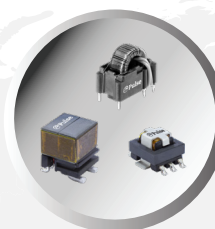
Switch Mode Transformers

- Multiple Topologies
- Up to 2kW
- Functional, Basic and Reinforced Insulation



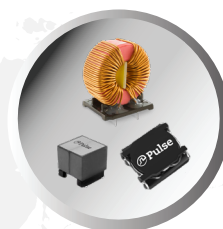
Isolation Transformers

- Push-pull, Flyback and H-Bridge topologies
- Functional, Basic and Reinforced Insulation
- Up to 5kVrms Hi-pot*



Current Sense Magnetics

- Functional, Basic and Reinforced Insulation
- Up to 40Arms



Common Mode Chokes

- NiZn, MnZn and Nanocrystalline Materials
- Up to 45Arms

Surface Mount and Through-hole Terminations • Catalog and Custom Solutions Available