

Features

- Magnetically shielded construction
- Low leakage field
- Recommended solder profile: Reflow
- Operating temperature: -40°C to +125°C



Application

- Low power DC/DC-converters
- Portable for PDA

Product Identification

KWPI 4828 2R2 N

① ② ③ ④

①	Type
KWPI	Wire Wound SMD Power Inductor

②	External Dimensions (L×W×H) [mm]
4828	4.8x4.8x2.8

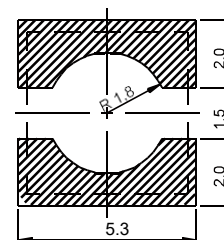
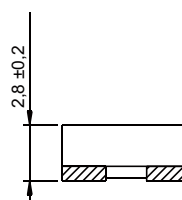
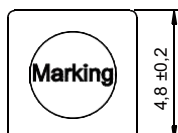
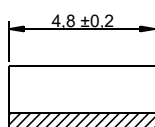
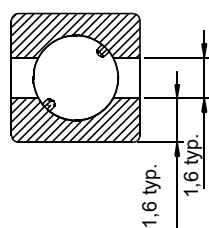
③	Nominal Inductance
example	Nominal Value
101	100 uH
2R2	2.2 uH

④	Inductance Tolerance
example	Nominal Value
N	±30%

SHAPE AND DIMENSIONS

Dimensions: [mm]

Land Pattern: [mm]



SPECIFICATIONS

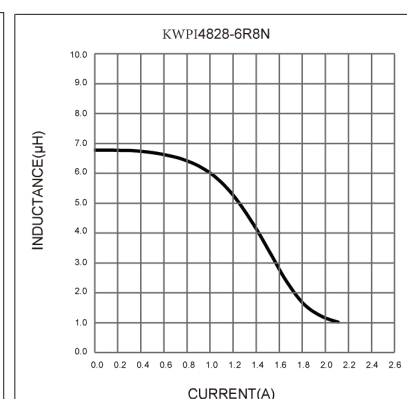
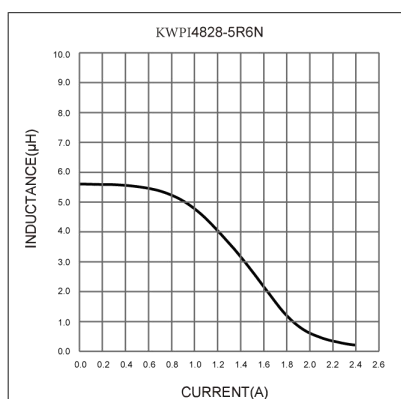
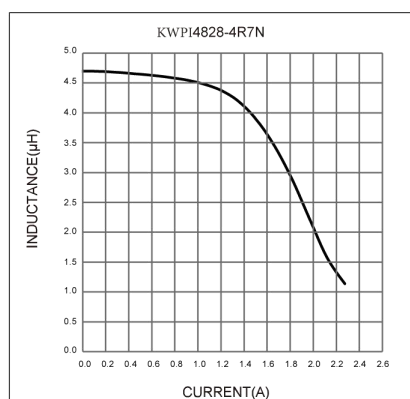
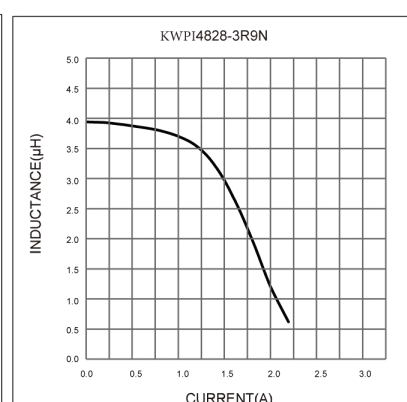
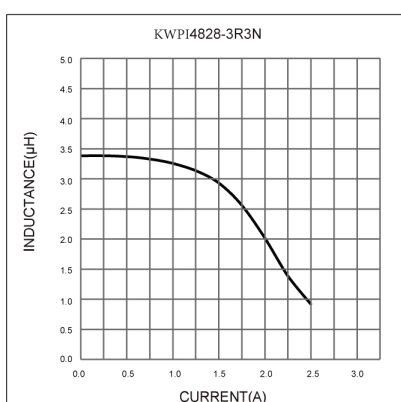
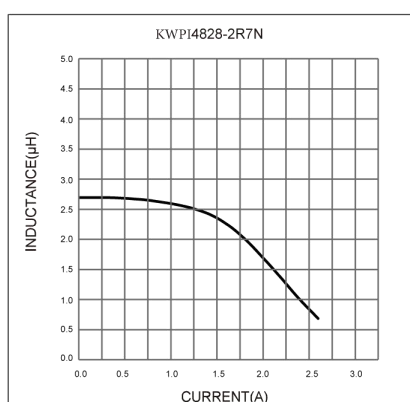
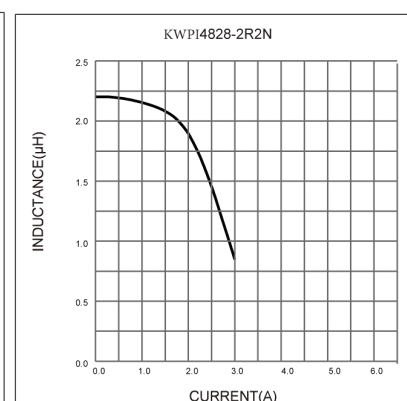
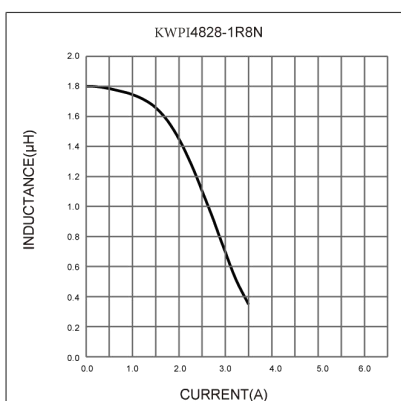
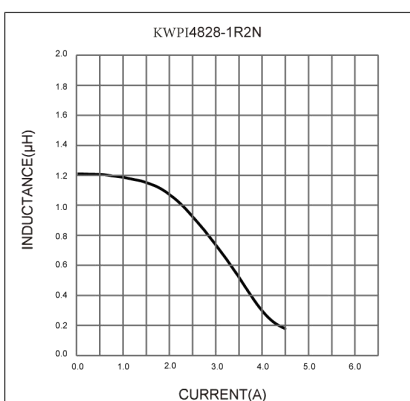
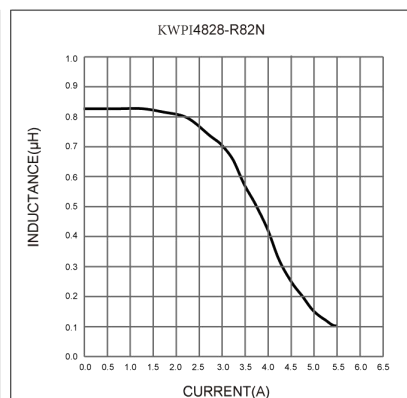
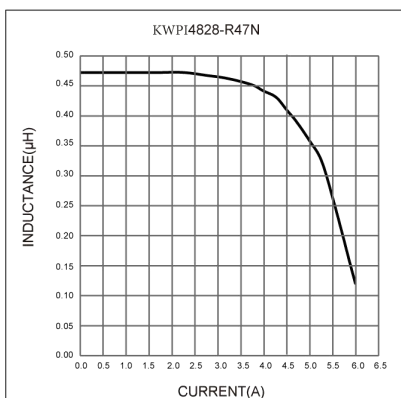
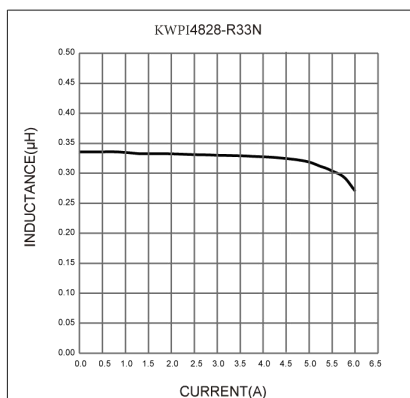
KWPI 4828 series

PN	L(uH)	Tol. L	Ir(A)	Isat(A)	RDC typ.(mΩ)	RDC max.(mΩ)	NiZn
KWPI4828-R33N	0.33	±30%	4	6	8	12	
KWPI4828-R47N	0.47	±30%	3.8	5	10	16	
KWPI4828-R82N	0.82	±30%	3.5	3.7	14	18	
KWPI4828-1R2N	1.2	±30%	3.1	2.8	17	20	
KWPI4828-1R8N	1.8	±30%	2.7	2.45	20	25	
KWPI4828-2R2N	2.2	±30%	2.5	2.35	27	28	
KWPI4828-2R7N	2.7	±30%	2.35	1.95	25	30	
KWPI4828-3R3N	3.3	±30%	2.15	1.8	30	35	
KWPI4828-3R9N	3.9	±30%	1.72	1.65	50	60	
KWPI4828-4R7N	4.7	±30%	1.55	1.7	50	70	
KWPI4828-5R6N	5.6	±30%	1.38	1.3	70	85	
KWPI4828-6R8N	6.8	±30%	1.3	1.25	80	90	
KWPI4828-8R2N	8.2	±30%	1.3	1.25	80	90	
KWPI4828-100N	10	±30%	1.19	1	95	110	
KWPI4828-120N	12	±30%	1.12	0.95	100	125	
KWPI4828-150N	15	±30%	1.03	0.75	120	150	
KWPI4828-180N	18	±30%	0.98	0.7	150	160	
KWPI4828-220N	22	±30%	0.925	0.7	160	185	
KWPI4828-270N	27	±30%	0.89	0.6	170	200	
KWPI4828-330N	33	±30%	0.82	0.55	195	230	
KWPI4828-390N	39	±30%	0.795	0.5	215	250	
KWPI4828-470N	47	±30%	0.75	0.5	250	280	
KWPI4828-680N	68	±30%	0.63	0.4	340	400	
KWPI4828-101N	100	±30%	0.51	0.29	550	600	
KWPI4828-151N	150	±30%	0.42	0.22	770	860	
KWPI4828-221N	220	±30%	0.34	0.2	1008	1250	
KWPI4828-331N	330	±30%	0.285	0.17	1630	1700	
KWPI4828-471N	470	±30%	0.24	0.125	2128	2600	
KWPI4828-561N	560	±30%	0.22	0.11	2610	3000	
KWPI4828-102N	1000	±30%	0.14	0.08	5400	7000	
KWPI4828-152N	1500	±30%	0.09	0.05	6800	9000	

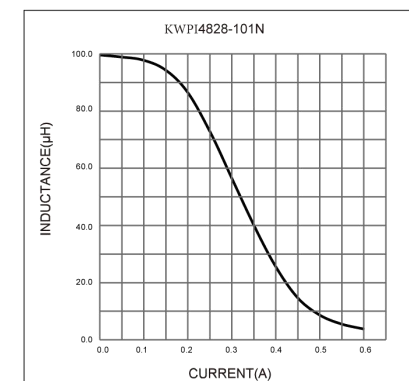
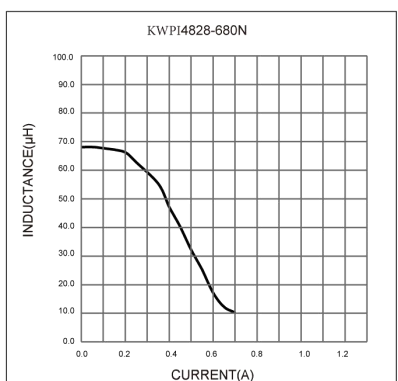
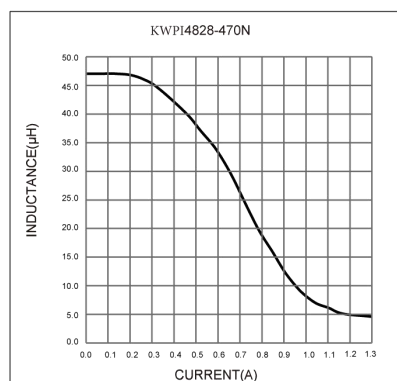
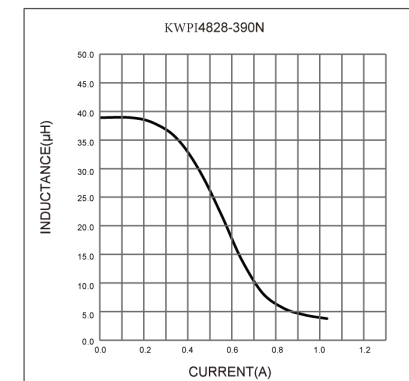
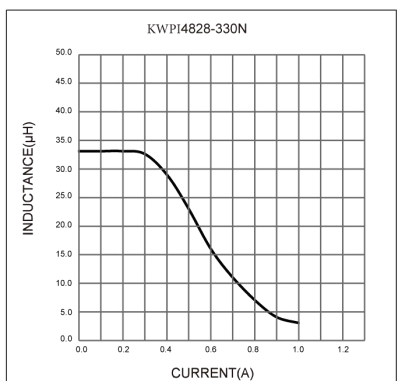
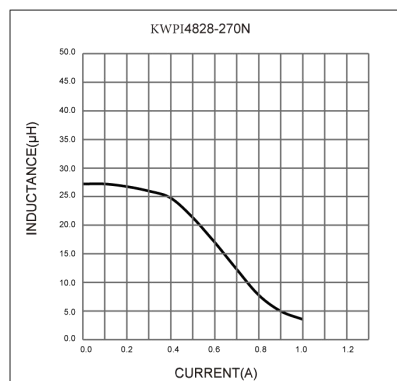
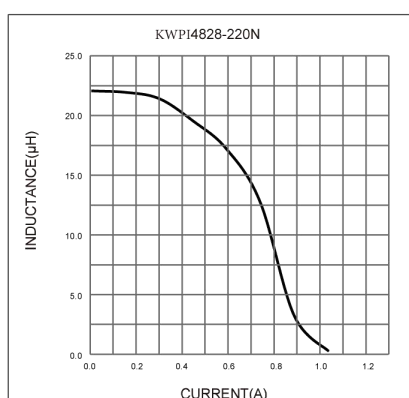
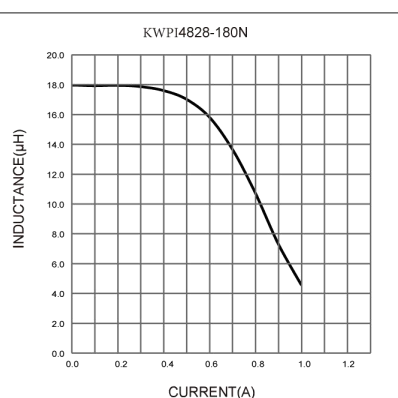
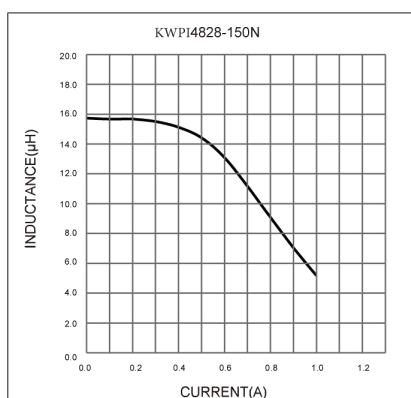
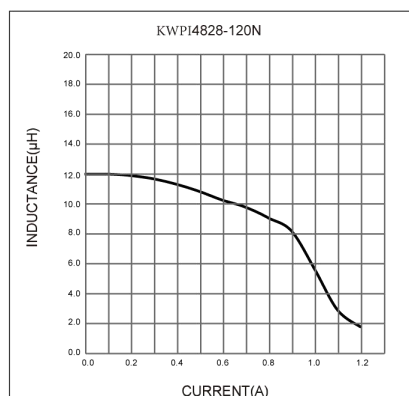
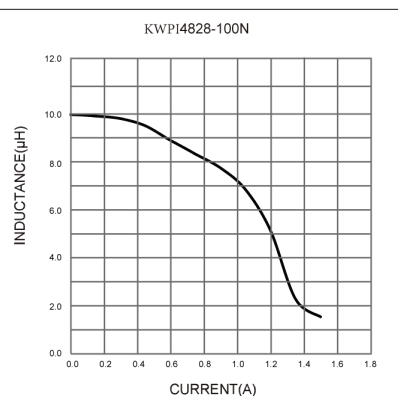
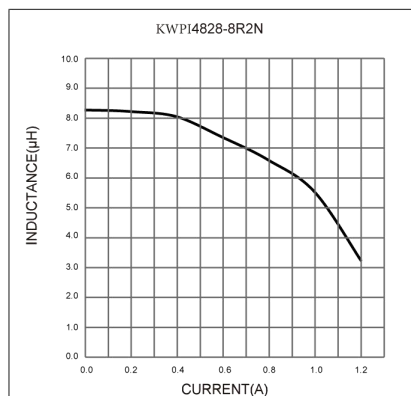
Notes:

- Electrical specifications at 25°C
- Temperature rise current: The actual value of DC current when the temperature rise is $\Delta T 30^{\circ}\text{C}$
- Isat Base on $\Delta L/L0A=35\%$ typ

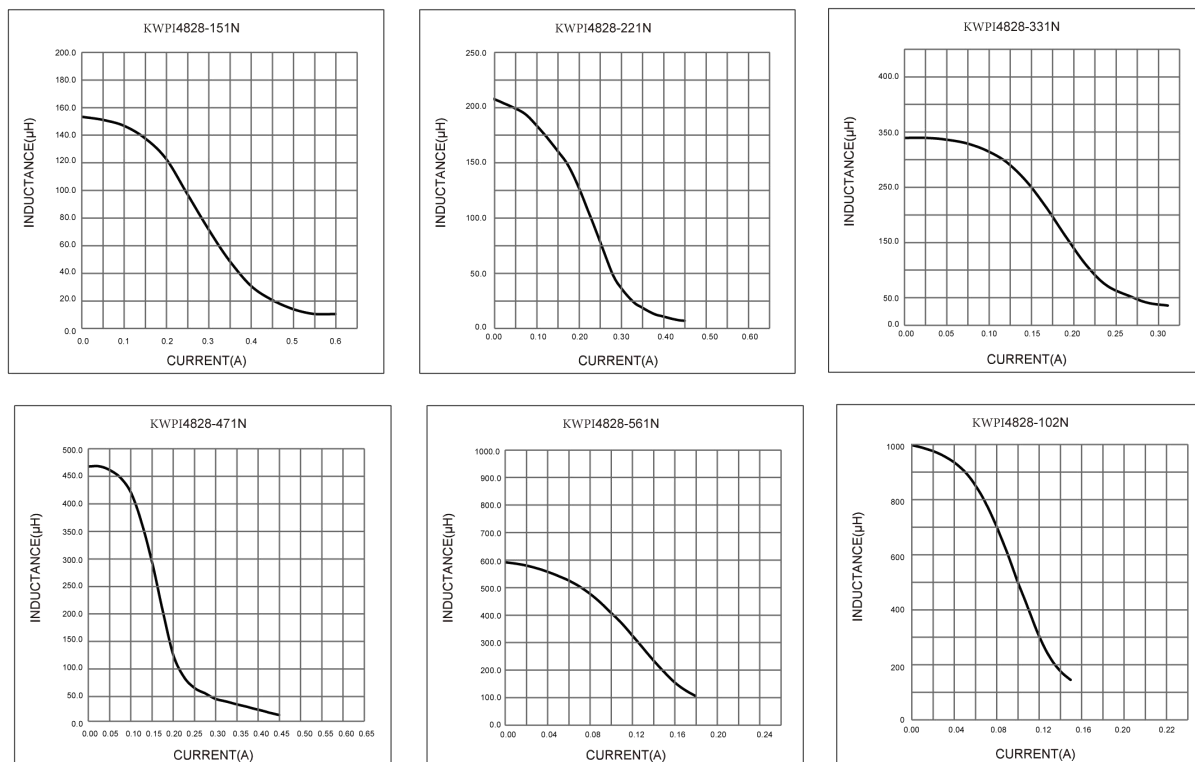
TYPICAL ELECTRICAL CHARACTERISTICS



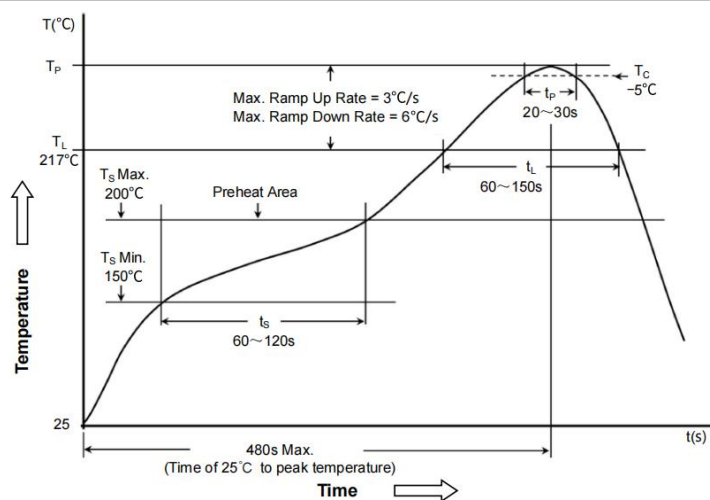
TYPICAL ELECTRICAL CHARACTERISTICS



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SOLDERING SPECIFICATION



	Package Thickness	Package Volume		
		<350 mm ³	350~2000 mm ³	>2000 mm ³
PB-Free Assembly	<1.6mm	260 °C	260 °C	260 °C
	1.6~2.5mm	260 °C	250 °C	245 °C
	≥2.5mm	250 °C	245 °C	245 °C

- Reflow is referred to standard IPC/JEDEC J-STD-020D

NOTICE OF USE

- Product in packing storage condition : temperature 5~40℃, RH<=70%;
- storage of KONEN Electronic products for longer than 12 months is not recommended, Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment;
- Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion;
- Always handle products with care;
- Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering;
- When this product will be used on a similar or new project to the original one, sometimes it might be unable to satisfy the specifications due to different condition of usage;
- This inductor itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc., or use in abnormal conditions protective devices or protection circuit in the end product;
- Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life;
- If using in potting compound, the magnet wire coating might be damaged, please consult with us;
- Refrain from rinsing coils. If necessary, please consult with us.