

Wire Wound SMD Power Inductor-KWPI Series

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 4818 2R2 N
① ② ③ ④

①	Type
KWPI	Wire Wound SMD Power Inductor

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

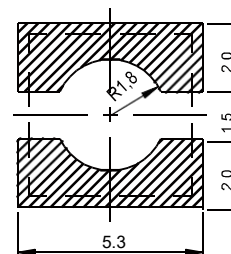
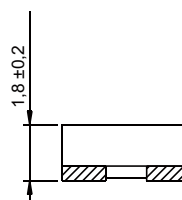
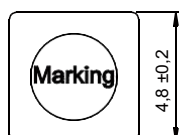
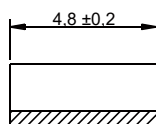
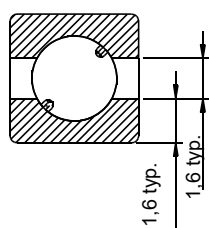
②	External Dimensions (L×W×H) [mm]
4818	4.8x4.8x1.8

④	Inductance Tolerance
example	Nominal Value
N	±30%

SHAPE AND DIMENSIONS

Dimensions: [mm]

Land Pattern: [mm]



SPECIFICATIONS

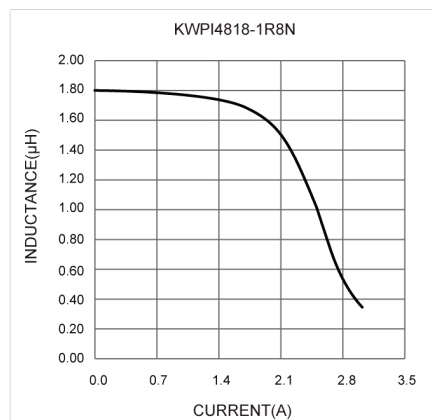
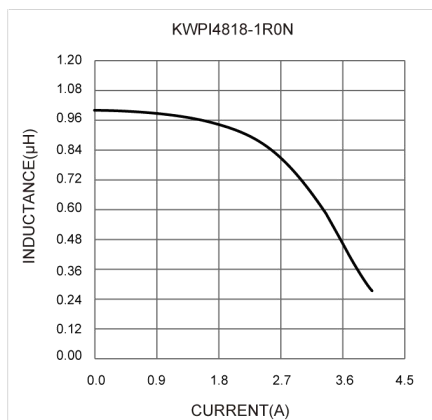
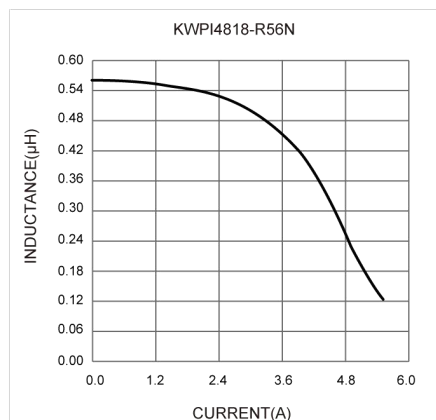
KWPI 4818 series

PN	L(uH)	Tol. L	Ir(A)	Isat(A)	RDC typ.(mΩ)	RDC max.(mΩ)	NiZn
KWPI4818-R56N	0.56	±35 %	3.1	3	19	25	
KWPI4818-1R0N	1	±30 %	2.7	2.6	20	30	
KWPI4818-1R8N	1.8	±30 %	2.35	2.4	40	50	
KWPI4818-2R7N	2.7	±30 %	2.03	2.2	47	60	
KWPI4818-3R3N	3.3	±30 %	1.95	1.8	50	65	
KWPI4818-3R9N	3.9	±30 %	1.82	1.7	60	75	
KWPI4818-4R7N	4.7	±30 %	1.72	1.65	70	82	
KWPI4818-5R6N	5.6	±30 %	1.64	1.35	80	90	
KWPI4818-6R8N	6.8	±30 %	1.5	1.25	80	100	
KWPI4818-8R2N	8.2	±30 %	1.4	1.1	100	135	
KWPI4818-100N	10	±30 %	1.3	1	120	150	
KWPI4818-120N	12	±30 %	1.15	0.95	150	170	
KWPI4818-150N	15	±30 %	1.03	0.75	190	220	
KWPI4818-180N	18	±30 %	0.92	0.7	270	280	
KWPI4818-220N	22	±30 %	0.88	0.6	280	300	
KWPI4818-330N	33	±30 %	0.72	0.5	382	420	
KWPI4818-470N	47	±30 %	0.62	0.45	540	600	
KWPI4818-680N	68	±30%	0.5	0.38	715	860	
KWPI4818-101N	100	±30%	0.4	0.3	1170	1350	
KWPI4818-221N	220	±30%	0.2	0.16	2880	3200	
KWPI4818-331N	330	±30%	0.15	0.13	4100	4500	

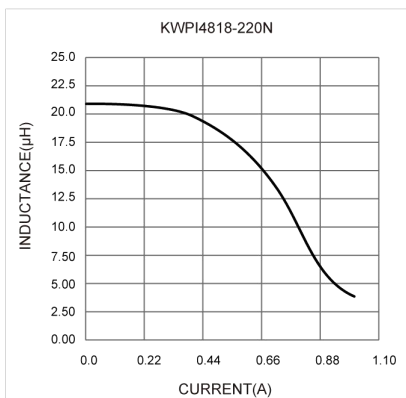
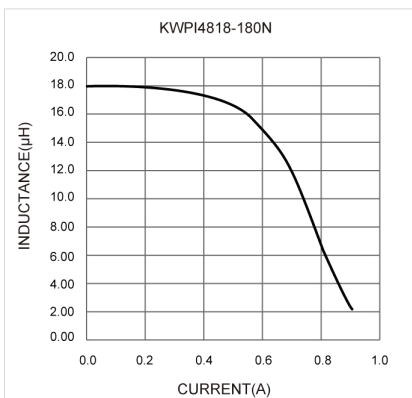
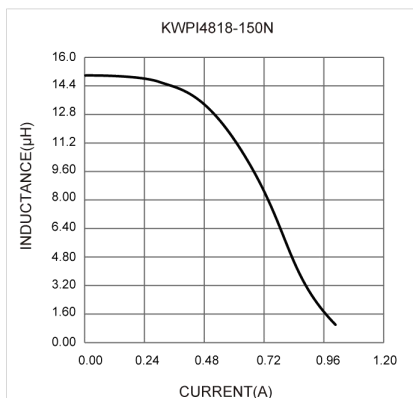
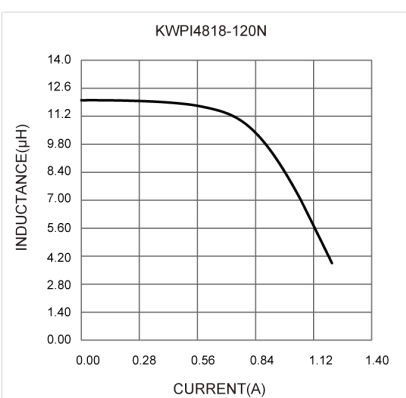
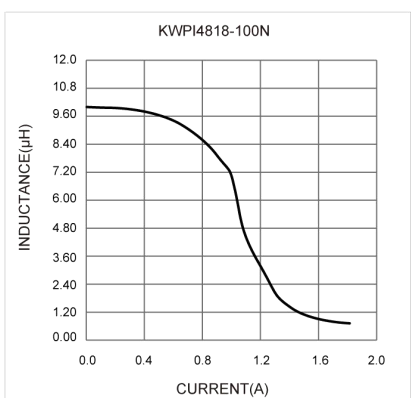
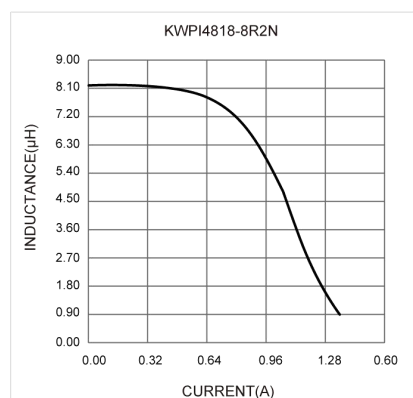
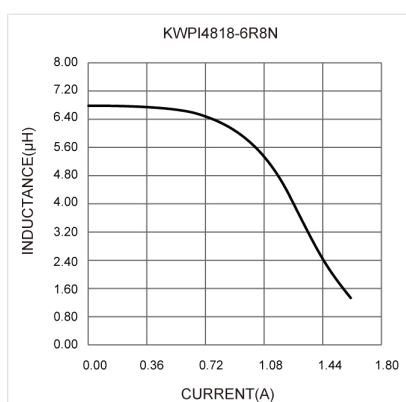
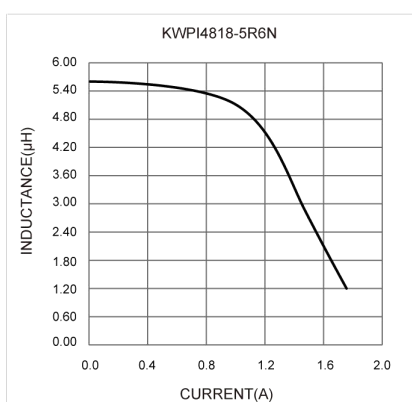
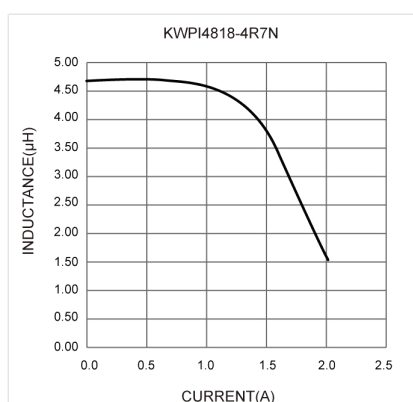
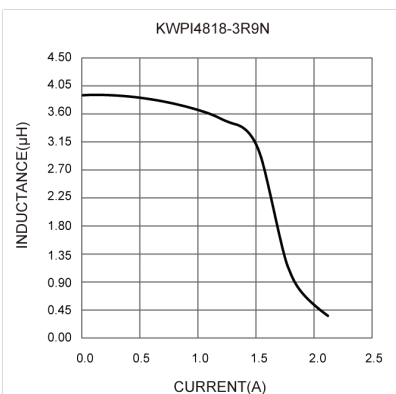
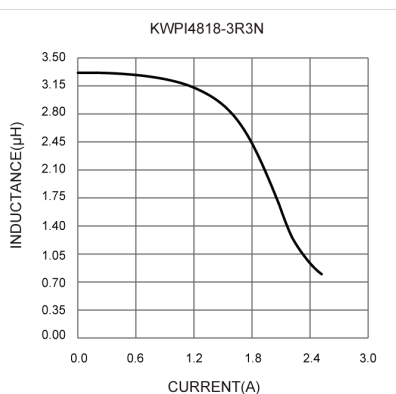
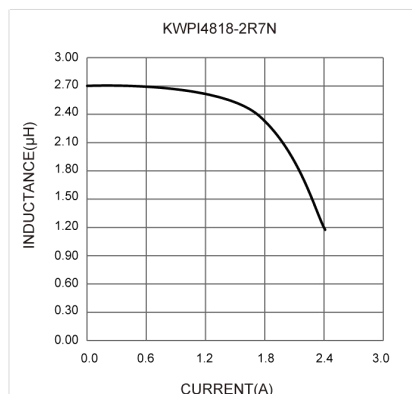
Notes:

- 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



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