Wire Wound SMD Power Inductor-KWPI Series

Features

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

Application

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

Product Identification

KWPI 8020 2R2 N

① ② ③ ④

①	Type
KWPI	Wire Wound SMD Power Inductor

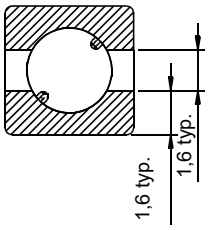
②	External Dimensions (L×W×H) [mm]
8020	8.0x8.0x1.8

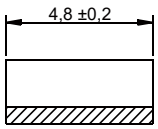
③	Nominal Inductance
example	Nominal Value
101	100 uH
2R2	2.2 uH

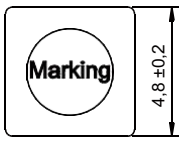
④	Inductance Tolerance
example	Nominal Value
N	±30%

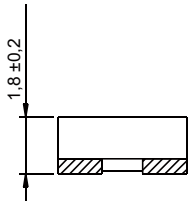
SHAPE AND DIMENSIONS

Dimensions: [mm]

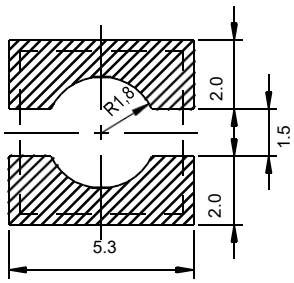








Land Pattern: [mm]



SPECIFICATIONS

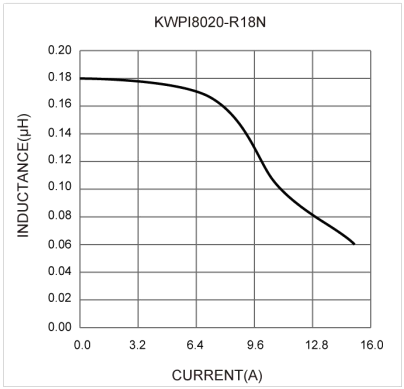
KWPI 8020 series

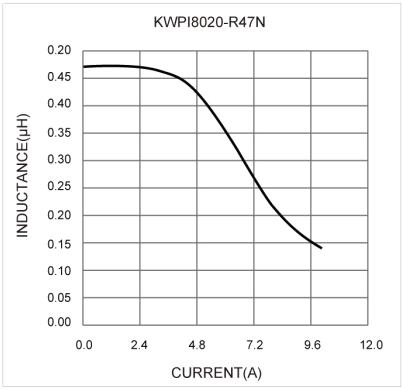
PN	L(uH)	Tol. L	Ir(A)	Isat(A)	RDC typ.(mΩ)	RDC max.(mΩ)	
KWPI 8020-R18N	0.18	±30 %	8.5	9.0	3.51	4.5	
KWPI 8020-R47N	0.47	±30 %	7.0	6.5	5.8	7.8	
KWPI 8020-R82N	0.82	±30 %	6.2	5.5	8.5	11	
KWPI 8020-1R2N	1.2	±30 %	4.8	4.2	12.5	16.5	
KWPI 8020-2R2N	2.2	±30 %	4.6	3.2	17	21	
KWPI 8020-3R3N	3.3	±30 %	3.2	2.55	30	36	
KWPI 8020-4R7N	4.7	±30 %	3.0	2.2	37	45	**NiZn**
KWPI 8020-5R6N	5.6	±30 %	2.6	2.0	47	56	
KWPI 8020-6R8N	6.8	±30 %	2.4	1.8	56	68	
KWPI 8020-8R2N	8.2	±30 %	2.2	1.7	70.5	85	
KWPI 8020-100N	10	±30 %	2.0	1.55	78	94	
KWPI 8020-150N	15	±30 %	1.65	1.25	117	140	
KWPI 8020-180N	18	±30 %	1.5	1.1	135	162	
KWPI 8020-220N	22	±30 %	1.3	1.0	166	200	

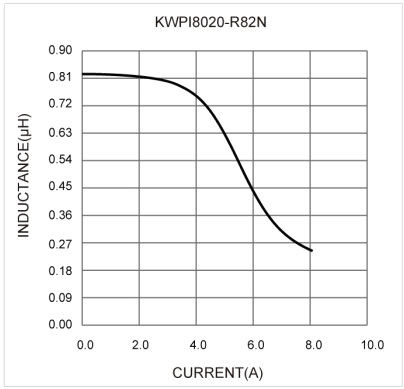
Notes:

- Electrical specifications at 25℃
- Temperature rise current: The actual value of DC current when the temperature rise is ΔT30℃
- Isat Base on △L/L0A=35% typ

TYPICAL ELECTRICAL CHARACTERISTICS

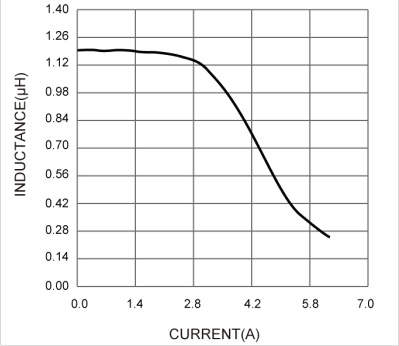






TYPICAL ELECTRICAL CHARACTERISTICS

KWPI8020-1R2N



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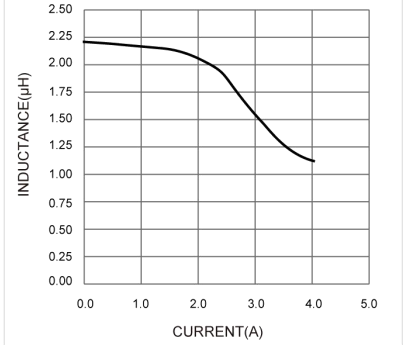

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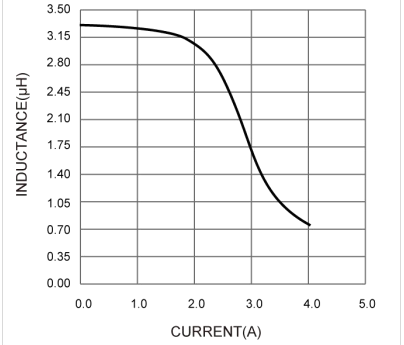

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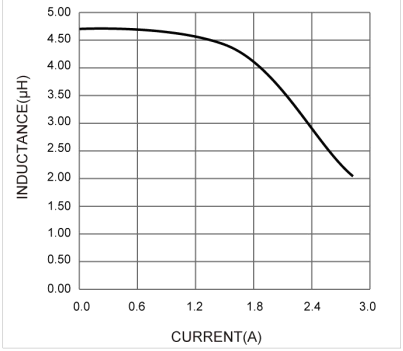

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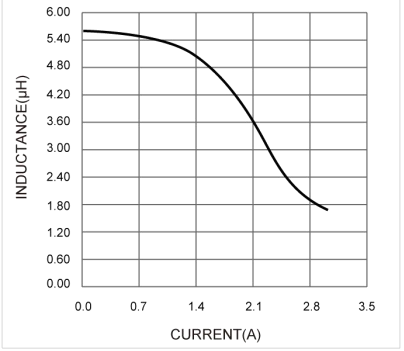

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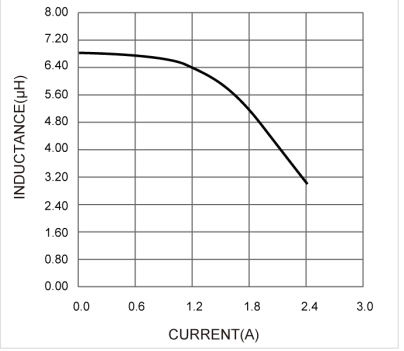

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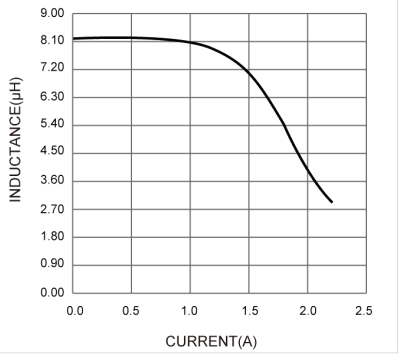
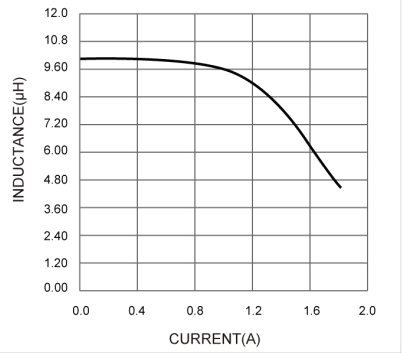


KWPI8020-100N



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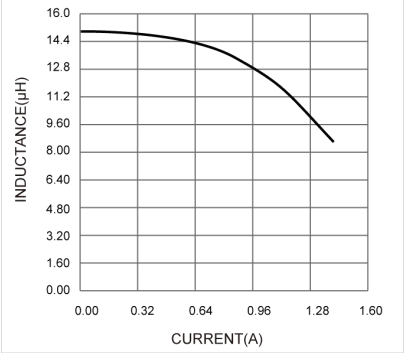

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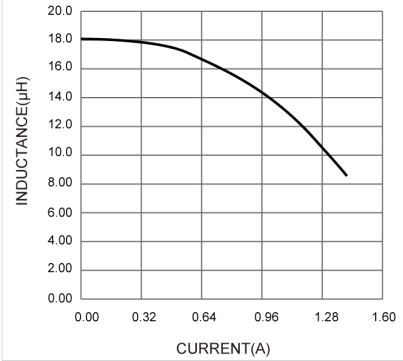

KWPI8020-220N