

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 8043 2R2 N

① ② ③ ④

①	Type
KWPI	Wire Wound SMD Power Inductor

②	External Dimensions (L×W×H) [mm]
8020	8.0x8.0x4.3

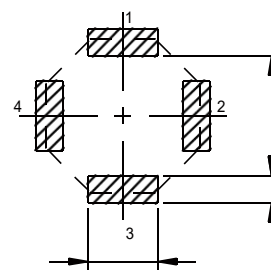
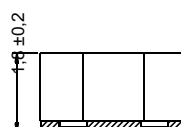
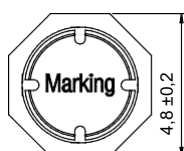
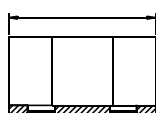
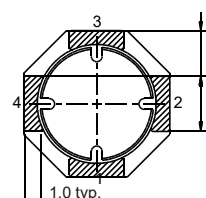
③	Nominal Inductance
example	Nominal Value
101	100 uH
2R2	2.2 uH

④	Inductance Tolerance
example	Nominal Value
N	±30%

SHAPE AND DIMENSIONS

Dimensions: [mm]

Land Pattern: [mm]



SPECIFICATIONS

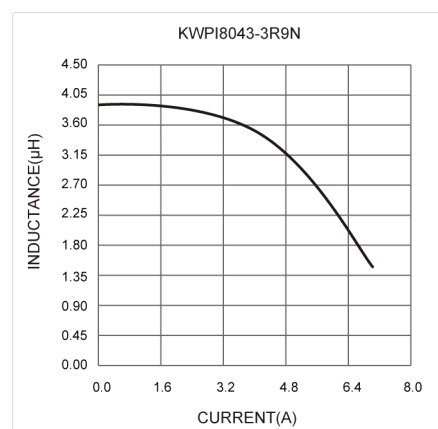
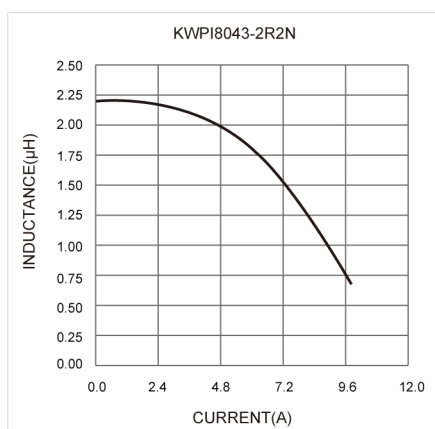
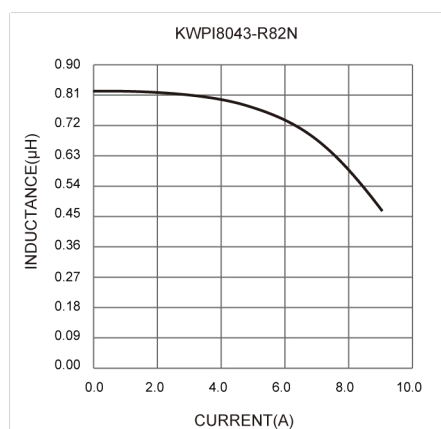
KWPI 8043 series

PN	L(μ H)	Tol. L	Ir(A)	Isat(A)	RDC typ.(m Ω)	RDC max.(m Ω)	NiZn
KWPI 8043-R82N	0.82	$\pm 30\%$	7.3	8.0	7	9	
KWPI 8043-2R2N	2.2	$\pm 30\%$	5.4	6.3	10	13	
KWPI 8043-3R9N	3.9	$\pm 30\%$	4.9	4.5	13	17	
KWPI 8043-4R7N	4.7	$\pm 30\%$	4.8	4.3	17	22	
KWPI 8043-5R6N	5.6	$\pm 30\%$	4.0	4.0	20	25	
KWPI 8043-100N	10	$\pm 30\%$	3.4	2.8	28	35	
KWPI 8043-150N	15	$\pm 30\%$	2.8	2.3	46	55	
KWPI 8043-220N	22	$\pm 30\%$	2.3	1.9	65	80	
KWPI 8043-330N	33	$\pm 30\%$	1.9	1.5	95	120	
KWPI 8043-470N	47	$\pm 30\%$	1.6	1.3	120	150	
KWPI 8043-680N	68	$\pm 30\%$	1.3	1.1	185	230	
KWPI 8043-101N	100	$\pm 30\%$	1.0	0.9	270	320	
KWPI 8043-221N	220	$\pm 30\%$	0.72	0.6	510	610	
KWPI 8043-102N	1000	$\pm 30\%$	0.23	0.34	2985	3500	

Notes:

- Electrical specifications at 25°C
- Temperature rise current: The actual value of DC current when the temperature rise is $\Delta T 40^\circ\text{C}$
- Isat Base on $\Delta L/L0A=35\%$ typ

TYPICAL ELECTRICAL CHARACTERISTICS



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