

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 3816 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

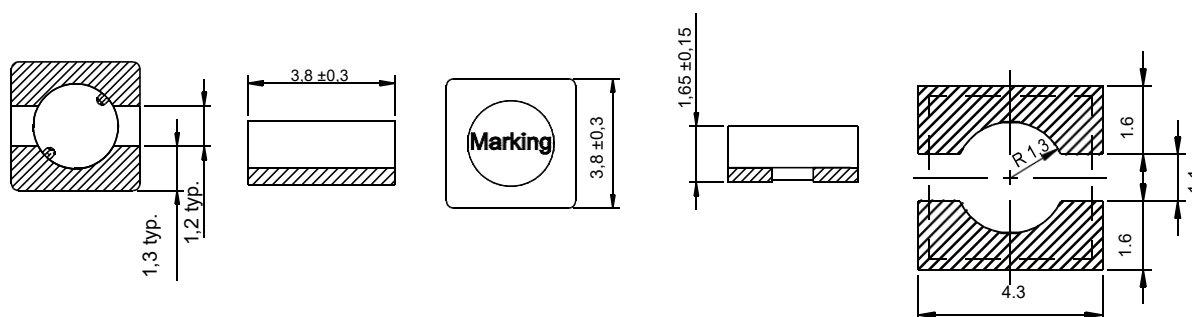
②	External Dimensions (L×W×H) [mm]
3816	3.8x3.8x1.65

④	Inductance Tolerance
example	Nominal Value
N	±30%

SHAPE AND DIMENSIONS

Dimensions: [mm]

Land Pattern: [mm]



SPECIFICATIONS

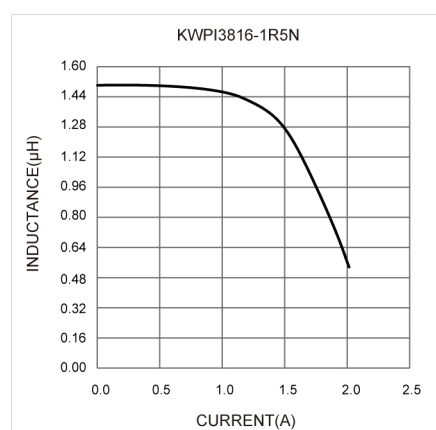
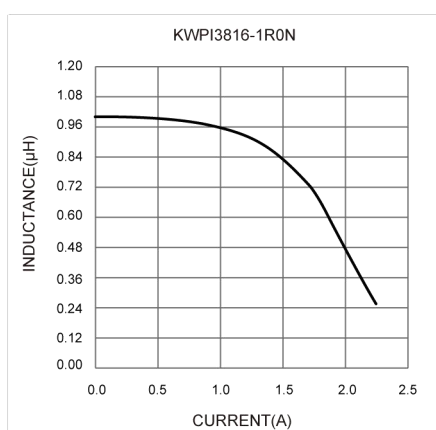
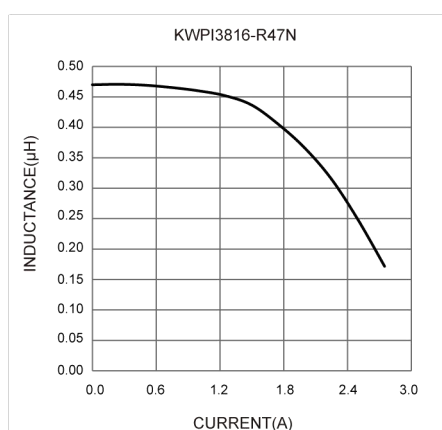
KWPI 3816 series

PN	L(μH)	Tol. L	Ir(A)	Isat(A)	RDC typ.(mΩ)	RDC max.(mΩ)	NiZn
KWPI3816-R47N	0.47	±35 %	3	2	16	22	
KWPI3816-1R0N	1	±30 %	2	1.6	26	37	
KWPI3816-1R5N	1.5	±30 %	1.75	1.55	40	47	
KWPI3816-2R5N	2.5	±30 %	1.45	1.25	50	58	
KWPI3816-3R6N	3.6	±30 %	1.38	1.1	66	85	
KWPI3816-4R7N	4.7	±30 %	1.2	0.9	90	105	
KWPI3816-6R8N	6.8	±30 %	0.85	0.75	135	156	
KWPI3816-100N	10	±30 %	0.74	0.56	185	205	
KWPI3816-150N	15	±30 %	0.62	0.45	255	285	
KWPI3816-220N	22	±30 %	0.51	0.36	410	450	
KWPI3816-330N	33	±30 %	0.42	0.32	635	660	
KWPI3816-470N	47	±30 %	0.39	0.25	940	1000	
KWPI3816-680N	68	±30 %	0.32	0.22	1150	1450	
KWPI3816-101N	100	±30 %	0.25	0.18	1930	2400	

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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