

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 5828 2R2 N
① ② ③ ④

①	Type
KWPI	Wire Wound SMD Power Inductor

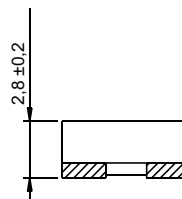
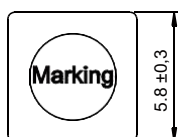
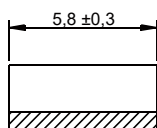
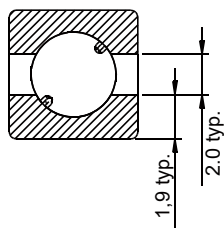
②	External Dimensions (L×W×H) [mm]
5828	5.8x5.8x2.8

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

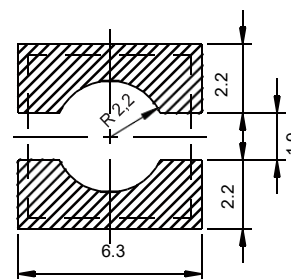
④	Inductance Tolerance
example	Nominal Value
N	±30%

SHAPE AND DIMENSIONS

Dimensions: [mm]



Land Pattern: [mm]



SPECIFICATIONS

KWPI 5828 series

PN	L(uH)	Tol. L	Ir(A)	Isat(A)	RDC typ.(mΩ)	RDC max.(mΩ)	NiZn
KWPI5828-2R6N	2.6	±30%	3	2.7	20	30	
KWPI5828-3R0N	3	±30%	2.8	2.5	20	30	
KWPI5828-4R2N	4.2	±30%	2.5	2.2	30	35	
KWPI5828-4R7N	4.7	±30%	2.4	1.95	30	38	
KWPI5828-5R3N	5.3	±30%	2.3	1.9	30	40	
KWPI5828-6R2N	6.2	±30%	2.2	1.7	40	45	
KWPI5828-8R2N	8.2	±30%	2.1	1.6	50	55	
KWPI5828-100N	10	±30%	1.5	1.4	60	70	
KWPI5828-120N	12	±30%	1.46	1.25	70	80	
KWPI5828-150N	15	±30%	1.38	1.15	80	100	
KWPI5828-180N	18	±30%	1.25	1.1	90	110	
KWPI5828-220N	22	±30%	1.15	0.9	100	120	
KWPI5828-270N	27	±30%	1.05	0.8	135	160	
KWPI5828-330N	33	±30%	0.9	0.75	180	190	
KWPI5828-470N	47	±30%	0.82	0.65	220	250	
KWPI5828-680N	68	±30%	0.75	0.56	300	350	
KWPI5828-101N	100	±30%	0.45	0.45	400	480	
KWPI5828-221N	220	±30%	0.3	0.29	1170	1250	

Notes:

- Electrical specifications at 25℃
- 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