

Features

- Shielded construction
- Mn-Zn Ferrite core, High DC saturation Current
- Operating temperature: -40°C to +125°C



Application

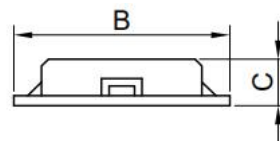
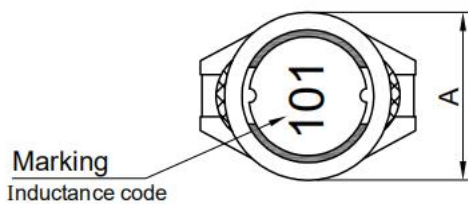
- DC/DC Converter
- Power supply systems

Product Identification

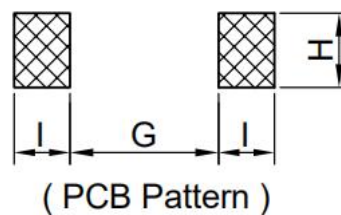
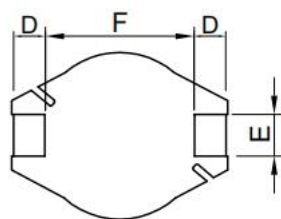
KWD 1030 - 1R2 M
 ① ② ③ ④

- ① Series name: Wire Wound Power Inductor SMD
- ② Chip Size: 10.0x12.7x2.7mm
- ③ Inductance: 1.2uH
- ④ Tolerance: M: ±20% Y: ±15%

SHAPE AND DIMENSIONS



Recommended Layout:



Unit:mm

B	C	A	D	E	F	G	H	I
12.70 ±0.3	2.70 ±0.3	10.10 ±0.3	2.40 ±0.2	2.20 ref.	7.60 ±0.3	7.30 ref.	2.80 ref.	3.00 ref.

SPECIFICATIONS

KWD1030 Series

Part Number	Inductance (μ H)	RDC max (Ω)	Irms typ (A)	Isat typ (A)
KWD1030-1R8M	1.8 \pm 20%	0.038	3.00	3.60
KWD1030-2R2M	2.2 \pm 20%	0.045	2.76	3.40
KWD1030-3R0M	3.0 \pm 20%	0.062	2.20	2.60
KWD1030-3R9M	3.9 \pm 20%	0.070	2.10	2.40
KWD1030-4R7M	4.7 \pm 20%	0.078	1.90	2.30
KWD1030-7R5M	7.5 \pm 20%	0.100	1.44	1.70
KWD1030-100M	10.0 \pm 20%	0.145	1.24	1.50
KWD1030-120M	12.0 \pm 20%	0.185	1.10	1.30
KWD1030-150M	15.0 \pm 20%	0.200	1.02	1.20
KWD1030-180M	18.0 \pm 20%	0.270	0.90	1.10
KWD1030-220M	22.0 \pm 20%	0.300	0.80	1.00
KWD1030-270M	27.0 \pm 20%	0.400	0.75	0.90
KWD1030-330M	33.0 \pm 20%	0.450	0.70	0.85
KWD1030-390M	39.0 \pm 20%	0.560	0.65	0.80
KWD1030-470M	47.0 \pm 20%	0.650	0.60	0.72
KWD1030-560M	56.0 \pm 20%	0.680	0.52	0.65
KWD1030-680M	68.0 \pm 20%	0.800	0.48	0.58
KWD1030-820M	82.0 \pm 20%	1.200	0.42	0.52
KWD1030-101M	100.0 \pm 20%	1.400	0.40	0.48
KWD1030-121M	120.0 \pm 20%	1.520	0.35	0.44
KWD1030-151M	150.0 \pm 20%	1.800	0.32	0.40
KWD1030-181M	180.0 \pm 20%	2.200	0.28	0.35
KWD1030-221M	220.0 \pm 20%	2.200	0.26	0.32
KWD1030-271Y	270.0 \pm 15%	3.100	0.22	0.28
KWD1030-331Y	330.0 \pm 15%	3.600	0.20	0.26
KWD1030-391Y	390.0 \pm 15%	4.600	0.18	0.22
KWD1030-471Y	470.0 \pm 15%	5.100	0.16	0.20

Notes:

- Electrical specifications at 25°C
- Irms base on Temp. rise 40°C max
- Isat base on Δ L/L0A=10% max