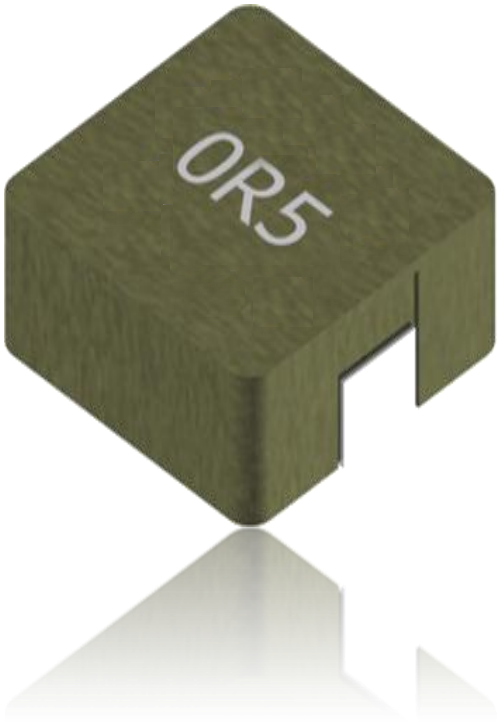
ABCO Standard Inductor

POWER INDUCTOR

LPMT3020-1H SERIES



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ABCO ELECTRONICS CO., LTD.

Inductor for Car of Metal Molding type

http://www.abco.co.kr

■ OPERATION TEMP.

LPMT-1H Series : -40℃~+125℃(Including self-generated heat)

■ FEATURES

- **Metal molding Construction**
- **High Current and Low Resistance**

■ APPLICATIONS

DC/DC converters for PDA, Notebook, Desktop, Battery powered devices etc.

■ ORDERING CODE

□□□□ ○○○○ □ - ○○○ □ - □□

① ② ③ ④ ⑤ ⑥

①Type
LPMT

②Body size(LxWxH)	
3020	3.5X3.2X1.8

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.1μH
1R0	1.0μH
100	10μH

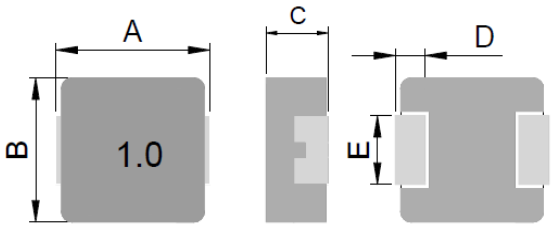
⑤Inductance Tol	
M	±20%
N	±30%

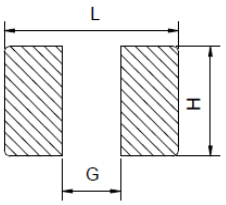
⑥Internal Code
1H

LPMT3020-1H SERIES

■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm





Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
LPMT3020-1H	3.5±0.2	3.2±0.2	1.8±0.2	0.7±0.2	1.2±0.2

L(mm)	G(mm)	H(mm)
4.1	1.9	1.45

■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT3020T - R10N-1H	0.10	± 30	100	9.0	6.6	14.0	10.5
LPMT3020T - R22N-1H	0.22	± 30		14.0	11.0	11.2	9.0
LPMT3020T - R33M-1H	0.33	± 20		21.0	17.0	10.0	8.0
LPMT3020T - R47M-1H	0.47	± 20		23.0	19.7	9.0	7.0
LPMT3020T - R68M-1H	0.68	± 20		29.0	25.5	7.0	5.5
LPMT3020T - R82M-1H	0.82	± 20		32.0	27.0	6.0	4.8
LPMT3020T - 1R0M-1H	1.00	± 20		38.0	32.0	5.0	4.0
LPMT3020T - 1R5M-1H	1.50	± 20		50.0	42.0	4.0	3.8
LPMT3020T - 2R2M-1H	2.20	± 20		75.0	65.0	3.7	3.5
LPMT3020T - 3R3M-1H	3.30	± 20		145	125	3.5	3.0
LPMT3020T - 4R7M-1H	4.70	± 20		200	172	3.0	2.6
LPMT3020T - 5R6M-1H	5.60	± 20		238	205	2.6	2.2
LPMT3020T - 6R8M-1H	6.80	± 20		300	260	2.2	1.9
LPMT3020T - 8R2M-1H	8.20	± 20		390	340	1.9	1.6
LPMT3020T - 100M-1H	10.0	± 20		422	366	1.6	1.4

▼ Test Equipments

- Inductance measured : HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER(100kHz, 1.0V)
- Rdc : CH16502,Agilent33420A MICRO OHMMETER.
- Saturation Current (Isat) will cause L0 to drop approximately 30%
- Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40℃

※ Rated DC current(Idc) : The value of Isat or Irms , whichever is smaller

▼ Operating Temperature Range

-40℃ ~ +125℃ (Including self-generated heat)