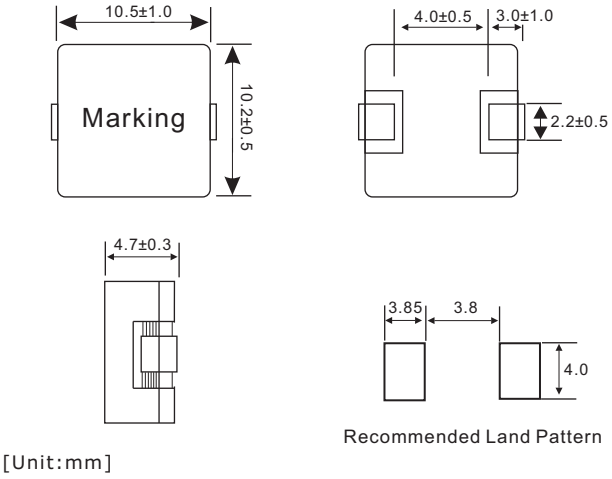
SMD High Current Inductors



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Recommended Land Pattern

Description

- Shielded construction: Excellent resistance to electro magnetic interference(EMI)
- Flat wire winding, achieve a low DCR.
- Low loss,high efficiency,wide application frequency and application scope.
- Lightweight design, save space,suitable for high density SMT.
- Operating temperature: -40°C~+150°C.
- AEC-Q200 compliance.

Part Number Code

DHIQ1005-R15N

- Inductance
- Dimensions
- Series Name

Electrical Specifications

Part Number	Inductance(uH)		DCR (mΩ)	Irms(Max) (A)	Isat(Max) (A)
	(±20%)	Typ.	(±10%)		
DHIQ1005-R15N	0.16±30%	0.15	0.51	28.0	55.0
DHIQ1005-R35M	0.40	0.35	0.67	26.0	35.0
DHIQ1005-R40M	0.50	0.40	1.30	25.0	25.0
DHIQ1005-R56M	0.72	0.56	1.30	24.0	27.0
DHIQ1005-1R0M	1.20	1.00	1.90	20.0	18.0
DHIQ1005-1R4M	1.75	1.35	3.5	15.0	17.0
DHIQ1005-1R8M	2.40	1.80	4.75	13.5	12.5
DHIQ1005-2R4M	3.20	2.40	5.9	11.5	12.0
DHIQ1005-3R3M	4.20	3.30	7.1	10.00	10.5
DHIQ1005-4R4M	5.50	4.40	10.3	8.5	10.0
DHIQ1005-5R0M	6.50	5.00	12.7	8.0	9.5
DHIQ1005-6R0M	7.80	6.00	13.8	7.3	9.0

Electrical Specifications

Part Number	Inductance(uH)		DCR (mΩ)	Irms(Max) (A)	Isat(Max) (A)
	(±20%)	Typ.	(±10%)		
DHIQ1005-7R4M	10.0	7.40	16.3	6.5	8.0
DHIQ1005-12R7M	16.0	12.70	33.0	4.7	6.0

- The Isat indicates the value of DC current is approximately 30% lower than its initial value of inductance.
- Δ T=40°C, approximately under the temperature rise current.
- Inductance Tested at 100KHz, 1Vrms

Inductance VS DC Bias: