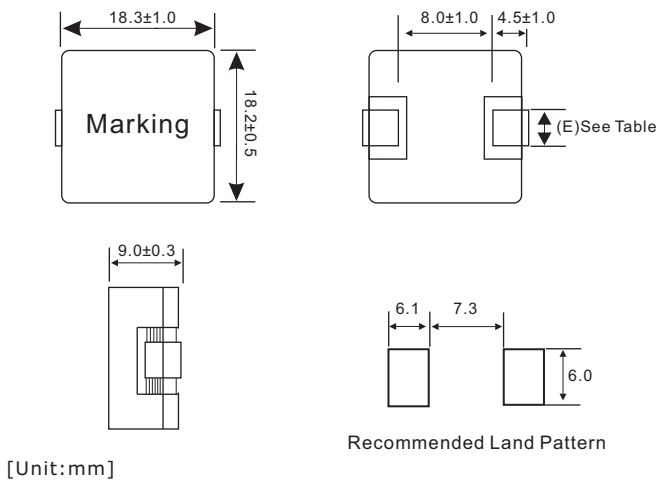


SMD High Current Inductors

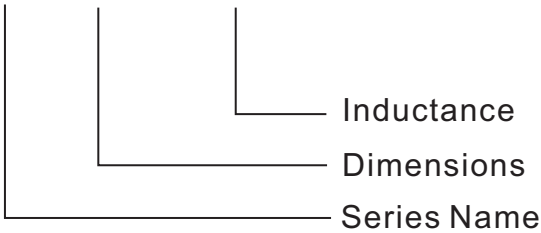


Description

- 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

DHIQ1809-R82M



Electrical Specifications

Part Number	Inductance(uH)		DCR (mΩ) (±10%)	IDC (A)	Pad Width(E) (mm)±0.5
	(±20%)	Typ.			
DHIQ1809-R82N	0.82	0.76	0.56	33.0	4.2
DHIQ1809-1R3M	1.30	1.20	0.94	32.0	4.2
DHIQ1809-1R9M	1.90	1.60	1.20	30.0	4.2
DHIQ1809-2R6M	2.60	2.2	1.65	25.5	4.2
DHIQ1809-3R5M	3.50	3.1	3.10	22.0	4.2
DHIQ1809-4R5M	4.50	3.90	3.40	18.5	4.2
DHIQ1809-5R6M	5.60	4.90	3.90	18.0	4.2
DHIQ1809-6R8M	6.80	5.80	4.10	16.5	4.2
DHIQ1809-8R2M	8.20	7.40	5.10	16.0	4.2
DHIQ1809-100M	10.00	7.1	7.10	14.0	3.2
DHIQ1809-120M	12.00	9.0	8.00	13.5	3.2
DHIQ1809-150M	15.00	12.00	9.30	12.0	3.2

Electrical Specifications

Part Number	Inductance(μH)		DCR ($\text{m}\Omega$) ($\pm 10\%$)	IDC (A)	Pad Width(E) (mm) ± 0.5
	($\pm 20\%$)	Typ.			
DHIQ1809-220M	22.00	18.50	14.60	9.0	3.2
DHIQ1809-330M	33.00	29.70	22.60	7.0	3.2
DHIQ1809-470M	47.00	43.00	34.00	5.2	2.4
DHIQ1809-820M	82.00	75.00	56.00	4.5	2.4

- The Isat indicates the value of DC current is approximately 30% lower than its initial value of inductance.
- $\Delta T = 40^\circ\text{C}$, approximately under the temperature rise current.
- Inductance Tested at 100KHz, 1Vrms

Inductance VS DC Bias:
