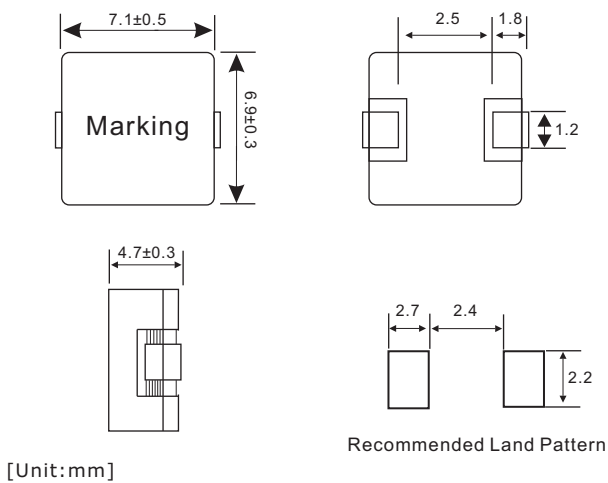


SMD High Current Inductors

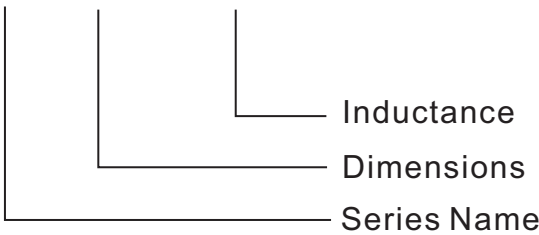


Description

- 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

DHIQ0705-R24N



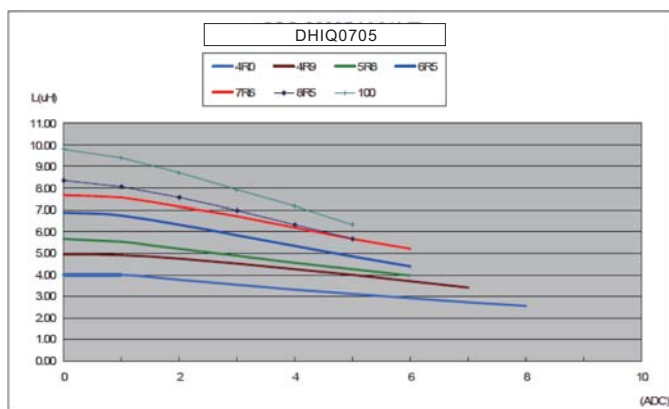
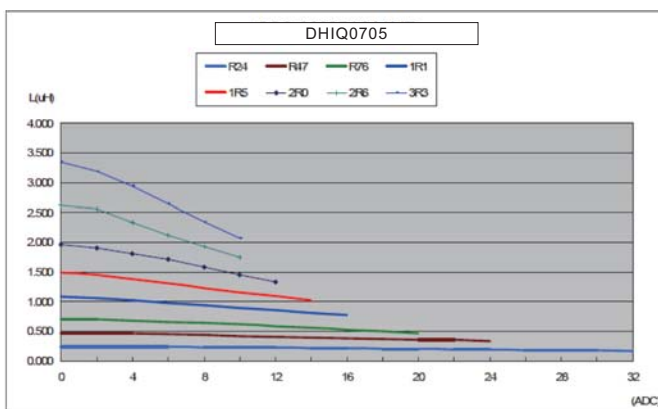
Electrical Specifications

Part Number	Inductance(uH)		DCR (mΩ) (±10%)	Irms(Max) (A)	Isat(Max) (A)
	(±20%)	Typ.			
DHIQ0705-R24N	0.24±30%	0.19	0.93	24.0	30.0
DHIQ0705-R47M	0.47	0.35	1.60	22.0	20.5
DHIQ0705-R76M	0.76	0.54	2.50	17.0	15.0
DHIQ0705-1R1M	1.10	0.75	3.2	15.0	13.0
DHIQ0705-1R5M	1.50	1.0	4.5	13.0	12.0
DHIQ0705-2R0M	2.00	1.4	6.2	11.0	10.0
DHIQ0705-2R6M	2.60	1.8	8.7	9.0	8.0
DHIQ0705-3R3M	3.3	2.2	9.5	8.5	7.0
DHIQ0705-4R0M	4.0	2.7	13.1	7.00	6.0
DHIQ0705-4R9M	4.9	3.4	15.1	6.5	6.0
DHIQ0705-5R8M	5.80	3.9	17.8	6.0	5.0
DHIQ0705-6R5M	6.50	4.5	22.2	5.3	5.0

Electrical Specifications

Part Number	Inductance(uH)		DCR (mΩ) (±10%)	Irms(Max) (A)	Isat(Max) (A)
	(±20%)	Typ.			
DHIQ0705-7R6M	7.6	5.4	27.7	4.4	3.8
DHIQ0705-8R5M	8.5	5.9	29.4	4.4	3.5
DHIQ0705-101M	10.0	7.2	32.7	3.7	3.5

- 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:

Temperature Rise VS DC Bias:
