Electrical / Environmental

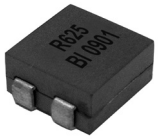
HM69C

Surface Mount Coupled Inductors

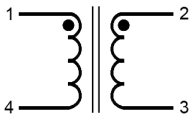
- Operating Temperature Range -40°C to +125°C
- Temperature Rise, Maximum 40°C
- Operating Frequency Up to 3MHz

NEW

RoHS Compliant



Schematic



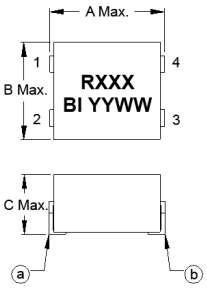
Specifications @ 25°C

Part Number	LS (1) (nH ± 20%)	LS @ I_{sat-1} (nH Min.)	2*LK (2) (nH ± 20%)	2*LK @ I_{sat-2} (nH Min.)	DCR (3) (mΩ ± 7%)	I_{sat-1} (4) (Adc)	I_{sat-2} (5) (Adc)
HM69C-1565R625LF	625	500	375	300	0.27	10	25
HM69C-1570R625LF	625	500	375	300	0.27	10	25

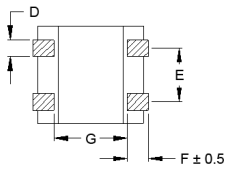
Notes: (1) LS is the inductance of each phase [Winding (1-4) with pins 2 & 3 open; or winding (2-3) with pins 1 & 4 open] @ 500kHz, 1V, 25°C.
(2) 2*LK is two times of leakage inductance [Winding (1-2) with pins 4 & 3 shorted] @100kHz, 0.1V.
(3) DCR is measured at 25°C at points a and b.
(4) I_{sat-1} is the DC current which causes LS to drop to LS @ I_{sat-1} .
(5) I_{sat-2} is the DC current which causes 2*LK to drop to 2*LK @ I_{sat-2} .

Outline Dimensions (mm)

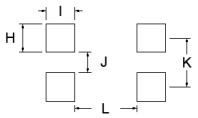
Top View



Bottom View



Recommended PCB Pattern



Case Size	A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K	L
1565	15.0	13.5	6.5	3.0	6.0	2.5	9.5	3.5	3.6	2.5	6.6	7.7
1570	15.0	13.5	7.0	3.0	6.0	2.5	9.5	3.5	3.6	2.5	6.6	7.7

Packaging

Standard: Embossed Tape & Reel

Reel:	Diameter:	=	13" (330.2mm)
	Capacity: Case size 1565, 1570	=	250 Units

Ordering Information

HM69C - 1565 R625 LF TR

- HM69C - Model Series
- 1565 - Case Size: 1565, 1570
- R625 - Inductance Code: First 2 digits are significant. Last digit denotes the number of trailing zeros. For values below 10µH, "R" denotes the decimal point.
- LF - Lead-Free
- TR - Tape & 13" Reel Packing