Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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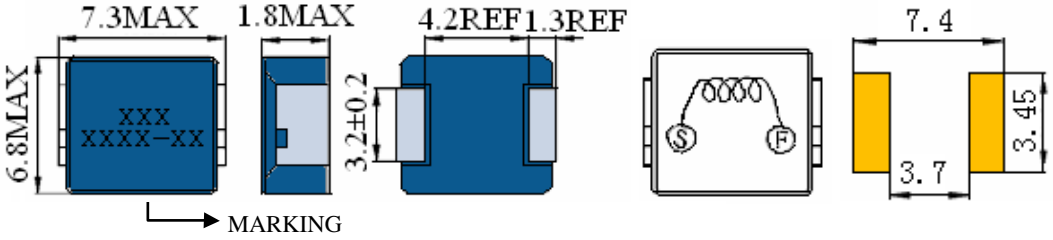
SCIHP0718

SMD POWER INDUCTORS

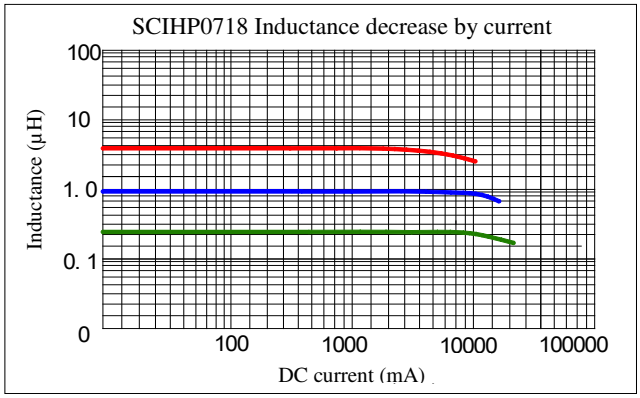


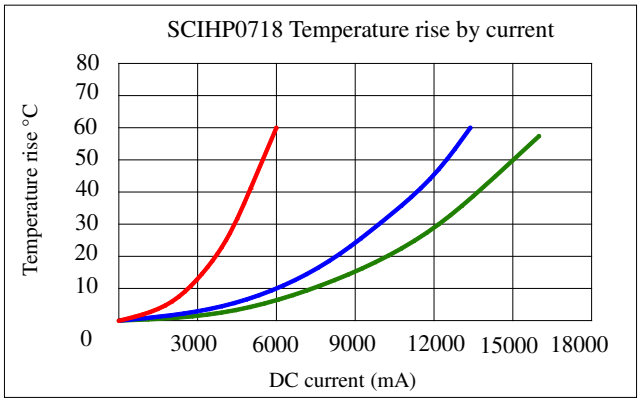
● Features

1. Lowest DCR/uH in this small package size.
2. Frequency range up to 5.0MHZ.
3. -55℃ to +125℃ operating temperature.
4. Handles high transient current spikes without saturation.
5. Composite construction providing extremely low buzz noise.

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCIHP0718-R33M	0.33	200KHZ	7.0m	18	12.0
SCIHP0718-R68M	0.68	200KHZ	13.9m	15	9.0
SCIHP0718-R82M	0.82	200KHZ	15.9m	14	8.0
SCIHP0718-1R0M	1.0	200KHZ	18.5m	11.5	7.0
SCIHP0718-1R5M	1.5	200KHZ	34.0m	10	6.0
SCIHP0718-2R2M	2.2	200KHZ	46.0m	8.5	5.0
SCIHP0718-3R3M	3.3	200KHZ	60.1m	6	3.25
SCIHP0718-4R7M	4.7	200KHZ	78.0m	5.5	3.0





(1). Inductance tolerance ±20% tested at 0.25V, 0ADC and 25℃

(2). DCR measured at 25℃.

(3). The DC current at which the inductance decreases by 20% from its initial value.

(4). The DC current that results in a 40℃ temperature rise from 25℃ ambient

(*). Part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions may affect the temperature of the part. Part temperature should be verified in the end application.

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