

SMD High Current Inductors

Fixed Inductor for Surface Mounting

SPH4020

SMD Shielded type

UNIT : mm

TYPE SPH4020

For Reflow Soldering

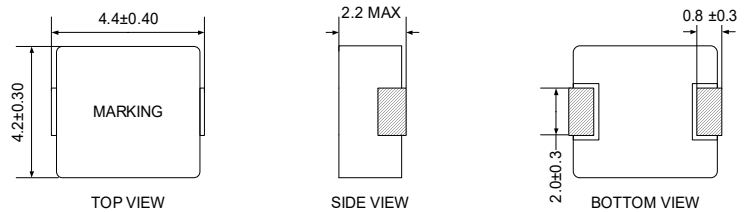
Frequency Range: 1kHz ~5MHz

Inductance Range: 0.47 ~ 10uH

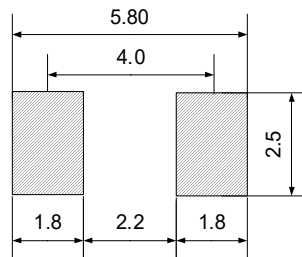
Features

- *Low profile (2.2mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Handles high transient current spikes without saturation
- *Ultra low buzz noise, due to composite construction
- *Qualified to AEC-Q200

Dimensions



Recommended PCB Pattern



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,MAX)	Isat*1 (A,MAX)	Irms*2 (A,MAX)	Marking
SPH4020-R47M	0.47±20%	14.0	9.5	7.5	R47
SPH4020-R56M	0.56±20%	16.0	9.0	7.0	R56
SPH4020-R68M	0.68±20%	18.0	8.0	6.5	R68
SPH4020-1R0M	1.0±20%	27.0	7.0	6.0	1R0
SPH4020-1R2M	1.2±20%	29.0	6.5	5.8	1R2
SPH4020-1R5M	1.5±20%	46.0	5.5	5.0	1R5
SPH4020-2R2M	2.2±20%	58.0	5.0	4.5	2R2
SPH4020-3R3M	3.3±20%	87.0	3.5	3.3	3R3
SPH4020-4R7M	4.7±20%	105	3.0	2.8	4R7
SPH4020-6R8M	6.8±20%	175	2.5	2.2	6R8
SPH4020-100M	10±20%	282	2.0	1.6	100

*Notes

*1.Isat : DC current at which the inductance drops approximate 30%

*2.Irms : DC current that will cause an approximate ΔT of 40 °C

※Test Equipment

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

*Specifications subject to change without notice. Please check our website for latest information.

Revised 20/04/21