

SMD High Current Inductors

Fixed Inductor for Surface Mounting

SPH3020

SMD Shielded type

UNIT : mm

TYPE SPH3020

For Reflow Soldering

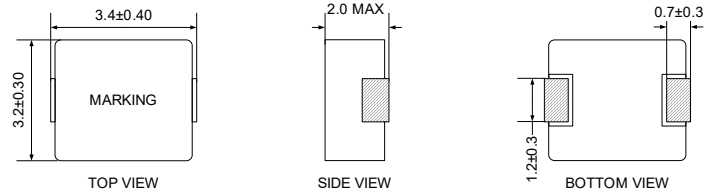
Frequency Range: 1kHz ~5MHz

Inductance Range: 0.33 ~ 10uH

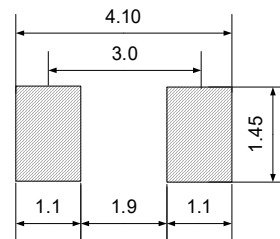
Features

- *Low profile (2.0mm 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*(A,max)	Irms*2(A,TYP)	Marking
SPH3020-R33M	0.33±20%	21.0	10.0	8.0	R33
SPH3020-R47M	0.47±20%	23.0	9.0	7.0	R47
SPH3020-R68M	0.68±20%	29.0	7.0	5.5	R68
SPH3020-1R0M	1.0±20%	38.0	5.0	4.0	1R0
SPH3020-1R5M	1.5±20%	50.0	4.0	3.8	1R5
SPH3020-2R2M	2.2±20%	75.0	3.7	3.5	2R2
SPH3020-3R3M	3.3±20%	145.0	3.5	3.0	3R3
SPH3020-4R7M	4.7±20%	200.0	3.0	2.6	4R7
SPH3020-5R6M	5.6±20%	238.0	2.6	2.2	5R6
SPH3020-6R8M	6.8±20%	300.0	2.2	1.9	6R8
SPH3020-8R2M	8.2±20%	390.0	1.9	1.6	8R2
SPH3020-100M	10±20%	422.0	1.6	1.4	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 04/15/22