

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE3012

SMD Magnetic-resin shielded type

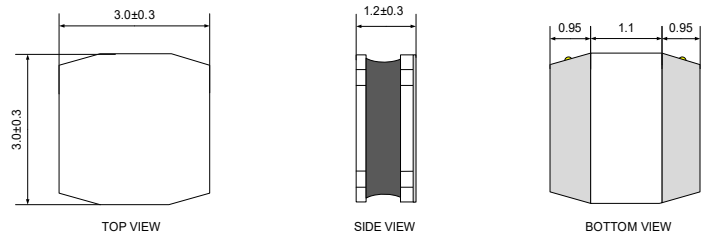
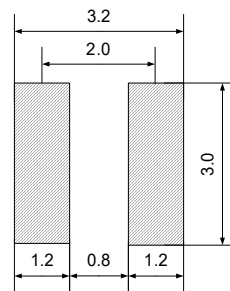
UNIT : mm

TYPE SPE3012

For Reflow Soldering
 Frequency Range: 1kHz ~5MHz
 Inductance Range: 2.2 ~ 47uH

Features

- *Low profile (1.2mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion

Dimensions**Recommended PCB Pattern****Electrical Characteristics**

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Isat*1 (A,MAX)	Marking
SPE3012-100M	10±20%	285	0.76	-
SPE3012-470M	47±20%	1.3Ω	0.30	-

***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

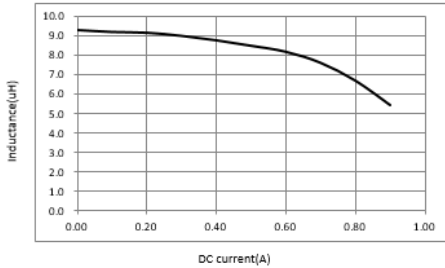
SMD Power Inductors

Fixed Inductor for Surface Mounting

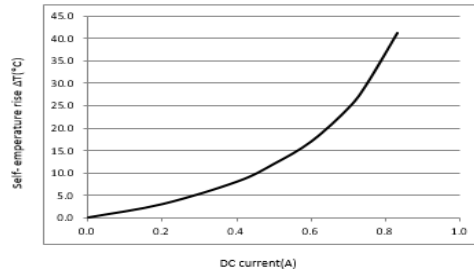
SPE3012

*SPE3012-100M

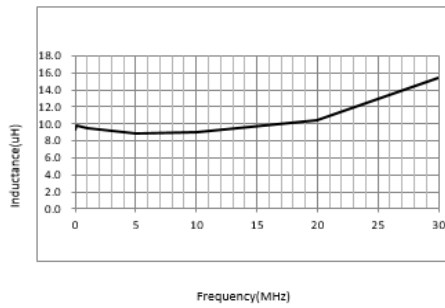
Inductance vs DC current



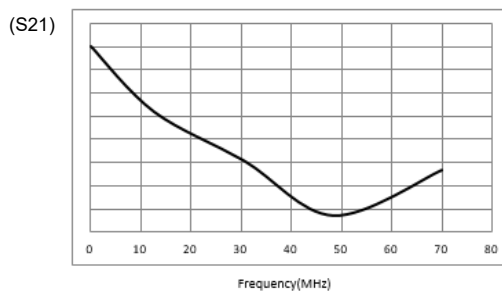
DC current vs Temperature



Inductance vs Frequency

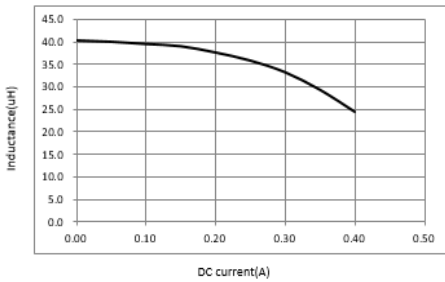


SRF(Self Resonance Frequency)

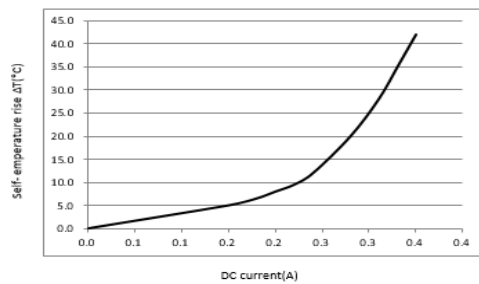


*SPE3012-470M

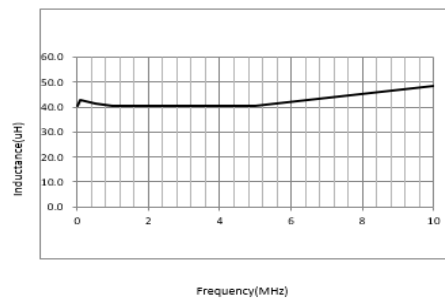
Inductance vs DC current



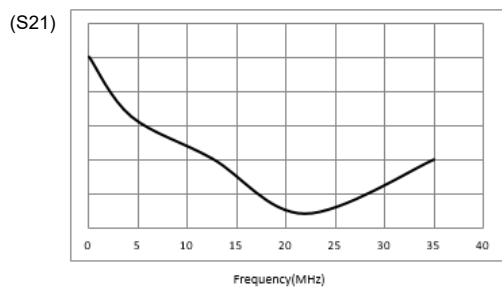
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21