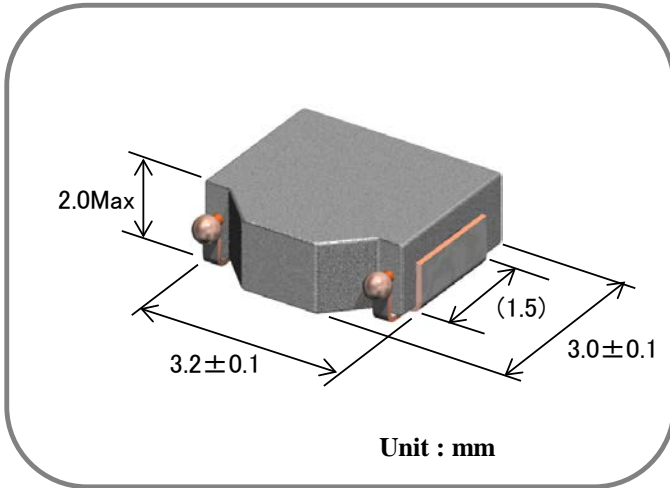


Component Image & Dimension



Features

- a) Small Footprint and Low Profile Design :
Footprint : 3.2 x 3.0 mm Typ.
Height : 2.0mm Max.
- b) High Power Handling Capability :
Small Copper Loss
Using Large Saturation Induction of Fe- based metals
- c) Flat inductance performance over temperature based on the high curie temperature of the iron powder core material.
- d) Automatic Mounting in Tape&Reel Package.

Applications

In-vehicle infotainment only

Electrical Specification (Provisional value)

TDK Identification	Lo / Inductance		Test Freq. (kHz)	DC Resistance		Rated DC Current	
	at 0A (uH)	Tol. (%)		Max. (mΩ)	Typ. (mΩ)	Isat (A) Typ.	Itemp (A) Typ.
SPM3020T- R47M-CA02	0.47	+/-20%	100	22.7max	20.6	9.0	4.8
SPM3020T- 1R0M-CA02	1.00	+/-20%	100	36.9max	33.5	6.3	3.8
SPM3020T- 1R5M-CA02	1.50	+/-20%	100	55.0max	50.0	4.4	3.4
SPM3020T- 2R2M-CA02	2.20	+/-20%	100	84.2max	76.5	3.9	2.8
SPM3020T- 3R3M-CA02	3.30	+/-20%	100	121.0max	110.0	3.5	2.2
SPM3020T- 4R7M-CA02	4.70	+/-20%	100	174.5max	151.7	2.9	1.9

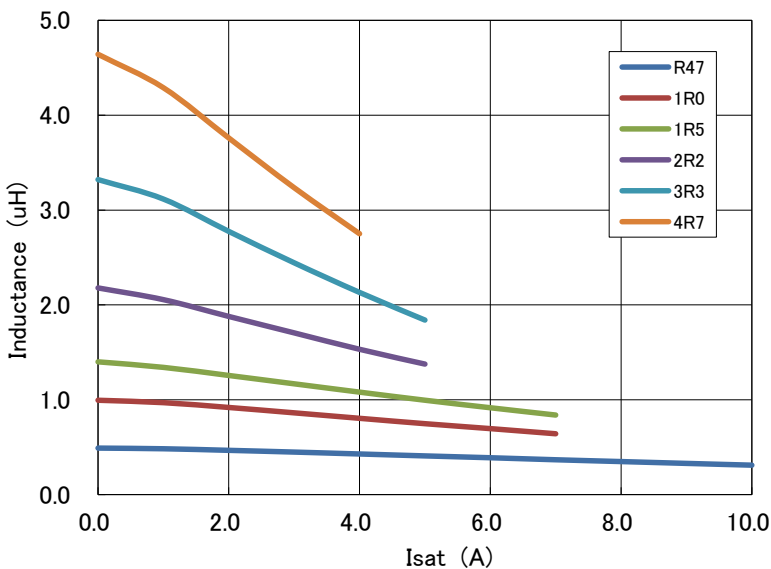
Note. Isat : Based on the inductance change.(drop -30% Typ. from Lo)

Itemp : Based on the self temperature rise. (+40 °C Typ.)

Operating Temperature Range: -40 °C ~+105 °C (including self temperature rise)

Caution: Please contact our sales person when you consider organic solvent or aqueous cleaning.

Inductance vs. DC Superposition



Recommended pad layout

