02-522F Series

From 0.10µH to 2.2µH

CHARACTERISTICS

Description: SMD high current power inductors
Applications: Ideal for VRM/VRD applications
Operating Temperature: -40°C to +125°C (including self-temperture rise)
Storage Temperature: -40°C to +125°C (on board)
Humidity Range: 85±2%RH
Irms: Will cause the coil temperature rise approximately Δt of 40°C (keep 1 min)
Isat Typ.: Will cause L0 to drop approximately 30%
Part Temperature (Ambient+Temp.Rise): Should not exceed 125°C under worst case operating conditions
Storage Condition (component in its packaging):
1. **Temperature:** Less than 40°C
2. **Humidity:** 60% RH

Packaging: Tape & Reel
Miscellaneous: RoHS Compliant
Additional Information: Additional electrical & physical information available upon request
Samples available. See website for ordering information.

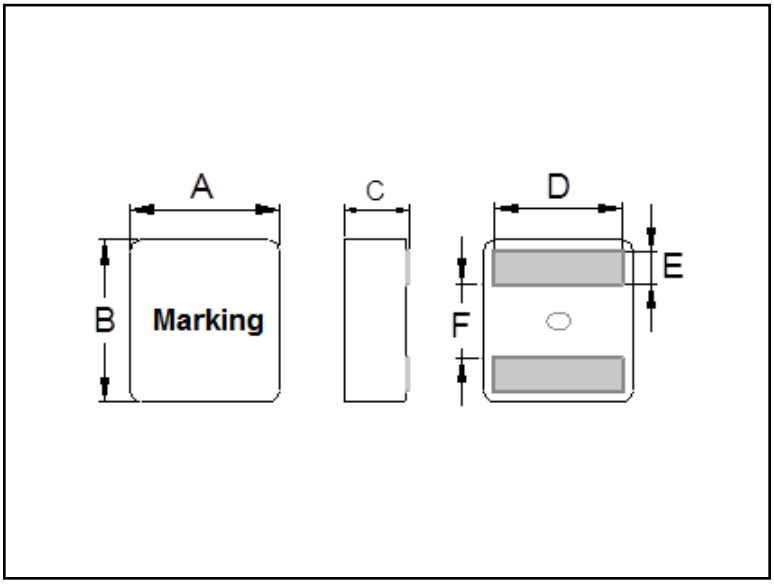
SPECIFICATIONS

***Irms Typ. and Isat Typ. value is derived based from accounting the upper limit tolerance into the inductance value.**
****At all times, the current supplied to the product should not exceed Isat Max. value.**

Part Number	Inductance (µH) ±20% @ 0A	Test Frequency	Irms (A) Typ. @20°C	Irms (A) Typ. @40°C	Isat (A) Typ.	Isat (A) Max.	DCR (mΩ) Typ.	DCR (mΩ) Max.
02-522F-R10M	0.10	100KHz/0.1V	13.5	18.0	38.0	33.0	2.20	2.42
02-522F-R22M	0.22	100KHz/0.1V	13.0	16.8	19.5	18.8	4.10	4.60
02-522F-R36M	0.36	100KHz/0.1V	11.0	14.5	17.0	15.0	5.60	6.30
02-522F-R40M	0.40	100KHz/0.1V	10.0	14.0	15.5	13.5	6.90	7.73
02-522F-R56M	0.56	100KHz/0.1V	8.5	12.0	14.0	12.6	8.40	9.30
02-522F-R60M	0.60	100KHz/0.1V	8.0	11.7	13.7	12.3	8.60	9.52
02-522F-R72M	0.72	100KHz/0.1V	7.6	10.5	12.0	10.6	10.40	11.60
02-522F-1R0M	1.00	100KHz/0.1V	6.8	9.6	9.6	8.8	13.30	14.60
02-522F-1R2M	1.20	100KHz/0.1V	6.6	9.0	9.0	7.8	16.20	17.90
02-522F-1R5M	1.50	100KHz/0.1V	5.8	7.6	8.0	7.4	21.00	23.50
02-522F-1R8M	1.80	100KHz/0.1V	5.2	7.0	7.5	7.0	25.00	28.00
02-522F-2R2M	2.20	100KHz/0.1V	4.6	5.6	6.5	6.0	35.20	38.70

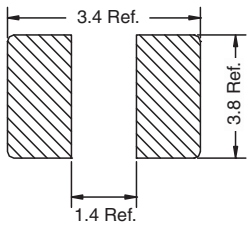
PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
mm	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25
inches	0.16±0.008	0.16±0.008	0.07±0.008	0.13±0.012	0.03±0.008	0.06±0.010



PAD LAYOUT

Unit: mm



Notes:
1.) The above Pad Layout is for reference only
2.) Solder paste thickness of 0.12mm and above is recommended