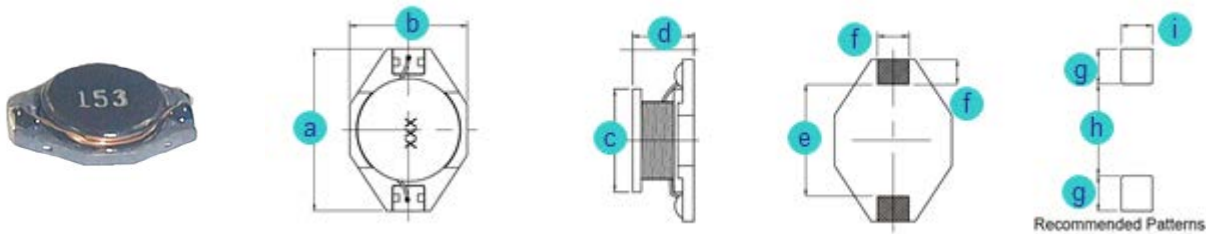


## A. Electrical Specifications:

PART NO.	Marking	Inductance (μH)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current(A)	I sat (A)
CSN082F-100M	103	10	100	0.11	2.0	2.4
CSN082F-150M	153	15	100	0.15	1.5	2.0
CSN082F-220M	223	22	100	0.23	1.3	1.6
CSN082F-330M	333	33	100	0.30	1.1	1.4
CSN082F-470M	473	47	100	0.39	0.8	1.0
CSN082F-680M	683	68	100	0.66	0.7	0.9
CSN082F-101M	104	100	100	0.84	0.6	0.7
CSN082F-151M	154	150	100	1.20	0.5	0.6
CSN082F-221M	224	220	100	1.90	0.4	0.5
CSN082F-331M	334	330	100	2.70	0.3	0.4
CSN082F-471M	474	470	100	4.00	0.2	0.3
CSN082F-681M	684	680	100	5.30	0.1	0.2
CSN082F-102M	105	1000	100	8.40	0.05	0.1

## B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i
CSN082F	12.95 (0.510)	9.4 (0.370)	Ø8.5 (0.335)	3.0 (0.118)	7.6 (0.299)	2.5 (0.098)	2.92 (0.115)	7.37 (0.290)	2.79 (0.110)
Tol.	Max.	Max.	Typ.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.



## C. General Information:

- CSN082F-xxx\_, "CSN082F" = P/N, "xxx" = Inductance, "\_" = Tolerance.
- Tolerance "\_": M = ± 20%, L = ± 15%, K = ± 10%.
- Operating temperature range: -30°C to +100°C (Including self-heating).
- Storage temperature: -40°C to +85°C.
- Inductance measured using the HP4284A and Chroma1320 & 3302.
- DCR measured using Chroma 16502 milliohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rise  $\Delta t < 40^\circ\text{C}$ .
- Inductance and Current range: From 10.0 μH (2.00A) to 1000.0 μH (0.05A).
- MSL: Level 1.

## D. Applications:

- Game Consoles
- Set Top Boxes
- Cables Modems
- Computers
- Mobile Communication Devices (Cell Phones, Radios, etc.)
- PDA, LCD, DVD, BRP, HD

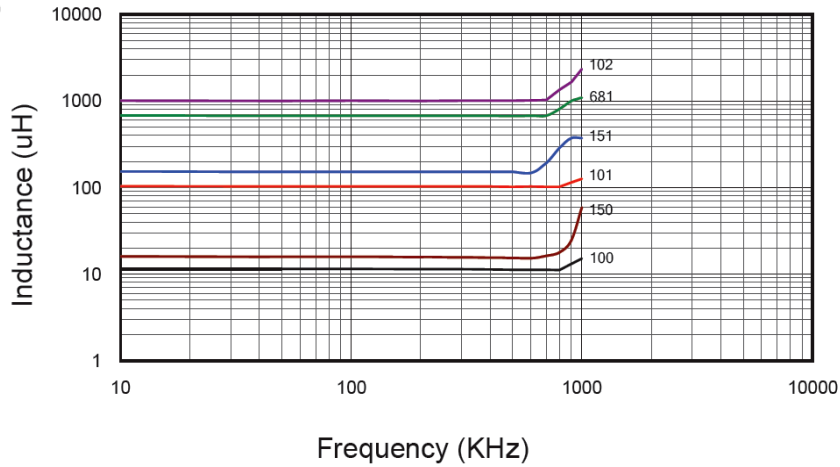


# CSN082F Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

Rev. A

## E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

