



# CSM0418D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

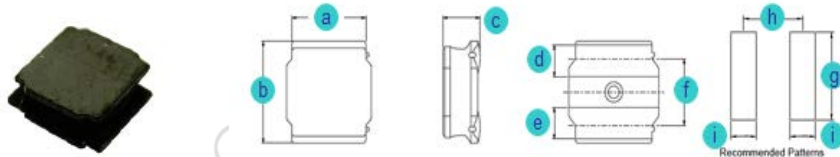
Rev. A

## A. Electrical Specifications

P/N	Marking	Inductance @100KHz (μH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSM0418D-1R0N	A	1.0	± 30%	0.027	4000	3200	90
CSM0418D-2R2M	C	2.2	± 20%	0.042	3000	2200	60
CSM0418D-3R3M	E	3.3	± 20%	0.055	2300	2000	45
CSM0418D-4R7M	H	4.7	± 20%	0.070	2000	1700	35
CSM0418D-6R8M	I	6.8	± 20%	0.098	1600	1450	30
CSM0418D-100M	K	10	± 20%	0.150	1300	1200	25
CSM0418D-150M	M	15	± 20%	0.210	1100	850	18
CSM0418D-220M	N	22	± 20%	0.290	900	720	15
CSM0418D-330M	P	33	± 20%	0.460	700	550	12
CSM0418D-470M	R	47	± 20%	0.65	570	420	10
CSM0418D-680M	S	68	± 20%	1.00	470	320	8.3
CSM0418D-101M	U	100	± 20%	1.50	400	270	6.5
CSM0418D-151M	W	150	± 20%	2.50	310	220	5.5
CSM0418D-221M	Y	220	± 20%	4.00	270	170	4.0

## B. Dimensions mm (Inch)

Series	a	b	c	d	e	f	g	h	i
CSM0418D	4.0(0.157)	4.0(0.157)	1.8(0.071)	1.1(0.106)	1.1(0.106)	2.5(0.098)	3.7(0.146)	2.8(0.110)	1.2(0.047)
Tol.	±0.2(0.008)	±0.2(0.008)	Max.	±0.2(0.008)	±0.2(0.008)	±0.2(0.008)	Typ.	Typ.	Typ.



## C. General Information:

1. CSM0418D-xxx, "CSM0418D" = P/N, "xxx" = Inductance, "\_" = Tolerance.
2. Tolerance "\_": M: ± 20%, N: ± 30%
3. Magnetically shielded
4. High saturation current
5. I sat: based on inductance decrease 30% (at 20 °C ambient).
6. I rms: based on temperature increase 40°C (at 20 °C ambient).
7. Storage temperature: -40°C to +85°C.
8. Operating temperature range: 25°C to +125°C (Including self-heating).
9. Inductance measured: HP4285A and Chroma1320 & 3302
10. DCR measured: CHROMA 16502 or equivalent.
11. Inductance and Current range: From 1.0 μH (3200mA) to 220 μH (170mA).
12. MSL: Level 1.

## D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. PDA, LCD, DVD, BRP, HD.

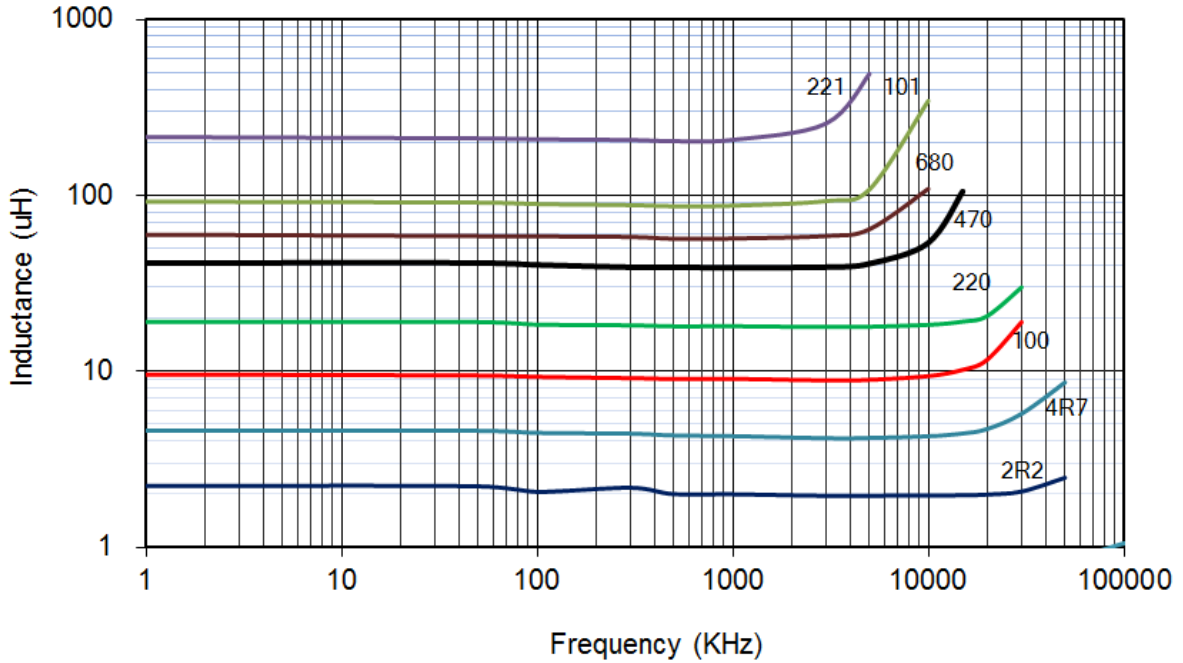


# CSM0418D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

Rev. A

## E. Characteristic Curve:

Inductance vs. Frequency



Inductance vs. DC Current

