



CSMS0620D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

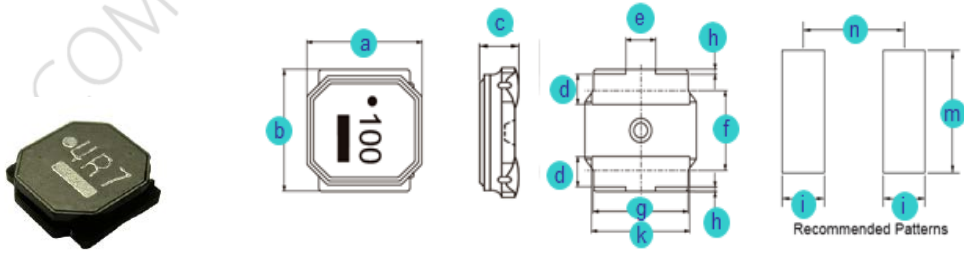
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance @ 100KHz (μ H)	Inductance Tolerance	DCR $\pm 20\%$ (Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0620D-R80N	0R8	0.8	$\pm 30\%$	0.020	6400	4100	110
CSMS0620D-1R5N	1R5	1.5	$\pm 30\%$	0.026	4300	3600	93
CSMS0620D-2R2N	2R2	2.2	$\pm 30\%$	0.034	3200	2900	73
CSMS0620D-3R3N	3R3	3.3	$\pm 30\%$	0.040	2800	2750	55
CSMS0620D-4R7N	4R7	4.7	$\pm 30\%$	0.058	2400	2150	43
CSMS0620D-6R8N	6R8	6.8	$\pm 30\%$	0.085	2000	1800	30
CSMS0620D-100M	100	10	$\pm 20\%$	0.125	1900	1500	18
CSMS0620D-220M	220	22	$\pm 20\%$	0.290	1250	950	11

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k	m	n
CSMS0620D	6.0 (0.236)	6.0 (0.236)	2.0 (0.079)	1.35 (0.053)	2.3 (0.091)	4.0 (0.157)	4.8 (0.189)	0.3 (0.012)	1.6 (0.063)	5.2 (0.205)	5.7 (0.224)	4.7 (0.185)
Tol.	± 0.2 (0.008)	± 0.2 (0.008)	Max.	± 0.2 (0.008)	Typ.	± 0.2 (0.008)	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

- CSMS0620D-xxx_, "CSMS0620D" = P/N, "xxx" = Inductance, "_" = Tolerance.
- Tolerance "_": M: $\pm 20\%$, N: $\pm 30\%$
- Magnetically shielded
- High saturation current
- Storage temperature: -40°C to $+85^{\circ}\text{C}$.
- Operating temperature range: -25°C to $+125^{\circ}\text{C}$ (Including self-heating).
- Inductance measured using the HP4285A and Chroma1320 & 3302.
- DCR measured using Chroma 16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1: The value of current causes a 30% Inductance reduction from initial value. (at : 20°C ambient)
- Temperature rise current Idc2: The value of current causes a 40°C temperature rise. (at : 20°C ambient)
- Rated Current: Either Idc1 or Idc2 whichever is smaller.
- MSL: Level 1.
- Inductance and Current range: From $0.8 \mu\text{H}$ (4100mA) to $22.0 \mu\text{H}$ (950mA).

D. Applications:

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

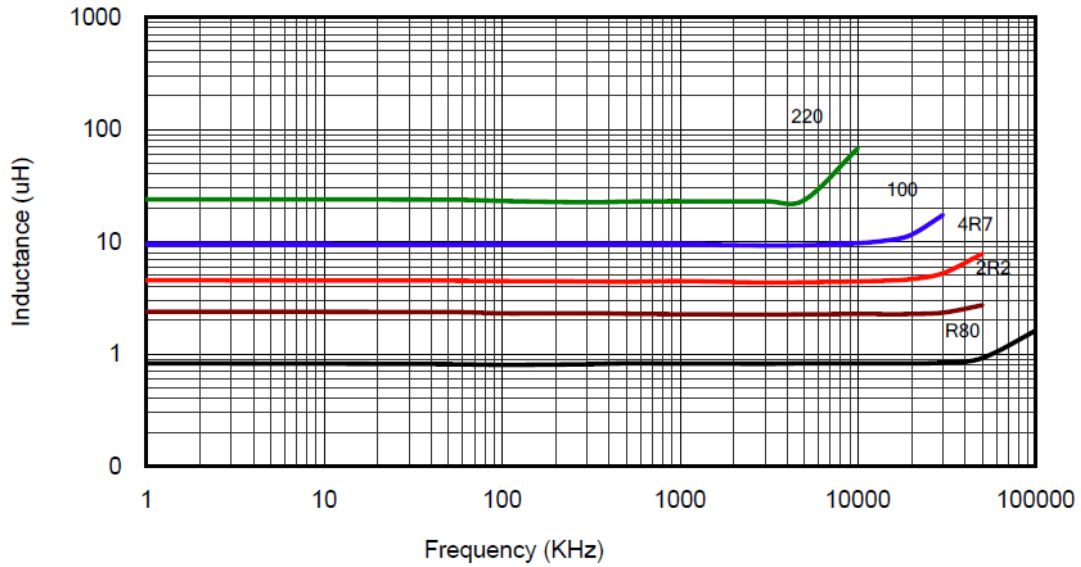


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

