

High Reliability Power Inductors MS369PJB



- High temperature materials allow operation in ambient temperatures up to 155°C
- Special construction allows it to pass vibration testing to 80 G and shock testing to 1000 G.
- Tin-lead (Sn-Pb) termination for the best possible board adhesion

Core material Ferrite

Terminations Tin-lead (63/37) over tin over nickel.

Weight 22 – 25 mg

Ambient temperature –55°C to +105°C with Irms current, +105°C to +155°C with derated current

Storage temperature Component: –55°C to +155°C.

Tape and reel packaging: –55°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Enhanced crush-resistant packaging 1000/7" reel
Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 1.37 mm pocket depth

Recommended pick and place nozzle OD: 3 mm; ID: ≤1.5 mm

Part number ¹	Inductance ² ±20% (μH)	DCR max ³ (Ohms)	SRF (MHz) ⁴		Isat (A) ⁵			Irms (A) ⁶	
			min	typ	10% drop	20% drop	30% drop	20°C rise	40°C rise
MS369PJB561MSZ	0.56	0.072	231	330	1.8	2.0	2.1	1.1	1.6
MS369PJB801MSZ	0.80	0.092	178	255	1.6	1.7	1.8	0.88	1.3
MS369PJB102MSZ	1.0	0.125	154	220	1.3	1.4	1.5	0.72	1.0
MS369PJB152MSZ	1.5	0.134	119	170	1.1	1.3	1.3	0.70	0.96
MS369PJB222MSZ	2.2	0.175	105	150	1.0	1.1	1.1	0.68	0.88
MS369PJB332MSZ	3.3	0.285	79.8	114	0.81	0.86	0.88	0.59	0.76
MS369PJB472MSZ	4.7	0.350	60.9	87	0.68	0.73	0.74	0.54	0.64
MS369PJB562MSZ	5.6	0.450	54.6	78	0.62	0.67	0.70	0.46	0.58
MS369PJB682MSZ	6.8	0.500	52.5	75	0.58	0.61	0.63	0.40	0.54
MS369PJB822MSZ	8.2	0.600	42.7	61	0.52	0.56	0.58	0.36	0.48
MS369PJB103MSZ	10	0.650	39.2	56	0.46	0.51	0.52	0.34	0.45
MS369PJB123MSZ	12	0.790	34.3	49	0.45	0.48	0.50	0.30	0.40
MS369PJB183MSZ	18	1.25	26.6	38	0.35	0.38	0.40	0.26	0.35
MS369PJB223MSZ	22	1.50	24.5	35	0.29	0.33	0.34	0.23	0.30
MS369PJB333MSZ	33	2.30	16.1	23	0.27	0.30	0.31	0.20	0.26
MS369PJB473MSZ	47	3.00	14.7	21	0.22	0.23	0.24	0.17	0.22
MS369PJB683MSZ	68	4.75	12.6	18	0.18	0.19	0.20	0.14	0.18
MS369PJB104MSZ	100	6.85	9.8	14	0.15	0.16	0.16	0.13	0.17
MS369PJB124MSZ	120	7.00	9.1	13	0.084	0.094	0.10	0.11	0.15
MS369PJB154MSZ	150	8.00	7.7	11	0.080	0.088	0.092	0.10	0.14
MS369PJB184MSZ	180	9.00	7.0	10	0.070	0.078	0.082	0.10	0.13
MS369PJB224MSZ	220	11.50	6.3	9	0.067	0.073	0.076	0.080	0.12
MS369PJB334MSZ	330	18.00	4.9	7	0.059	0.064	0.066	0.070	0.10

1. When ordering, please specify **testing** code:

MS369PJB104MSZ

Testing: Z = COTS

H = Screening per Coilcraft CP-SA-10001

N = Screening per Coilcraft CP-SA-10004

2. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4192A or equivalent.

3. DCR measured on a micro-ohmmeter.

4. SRF measured using an Agilent/HP 8753ES or equivalent.

5. Typical DC current at which the inductance drops the specified amount from its value without current.

6. Typical current that causes the specified temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Coilcraft CPS
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Specifications subject to change without notice.

Please check our website for latest information.

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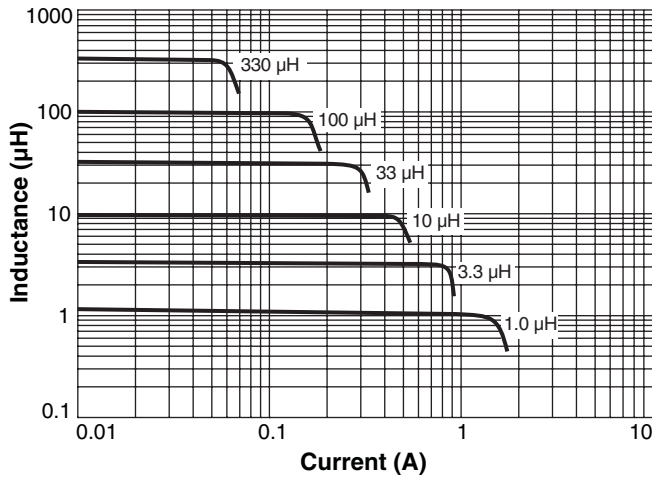
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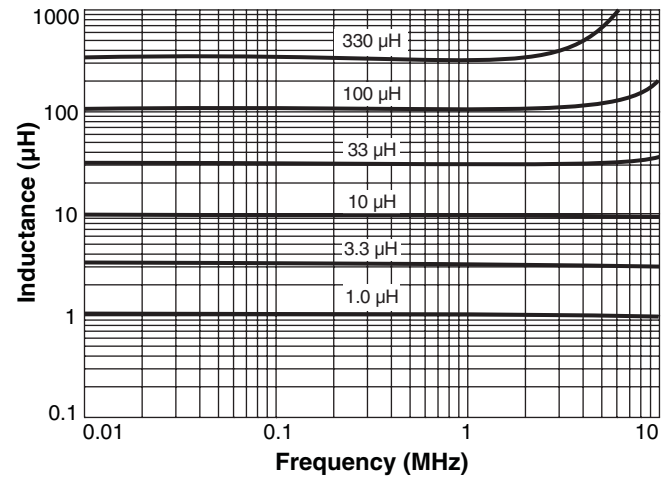
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MS369PJB Series (3008)

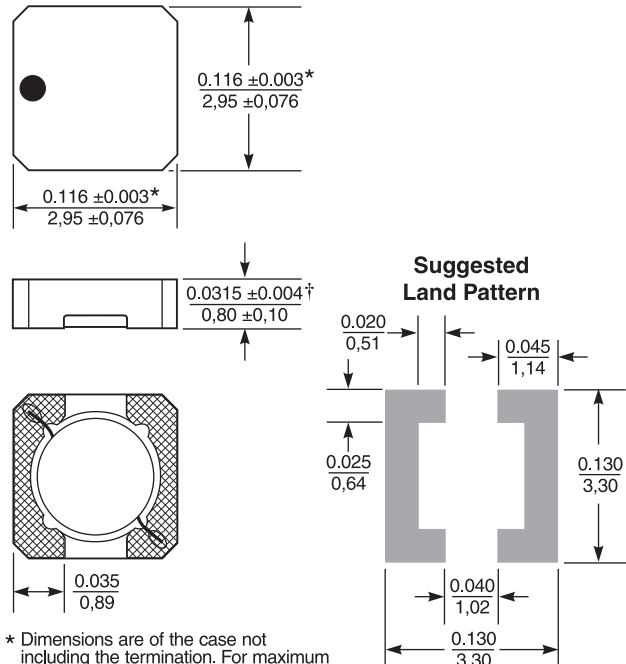
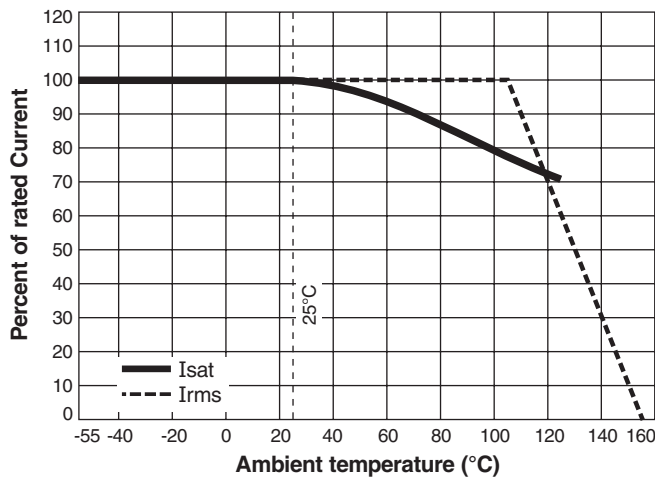
Typical L vs Current



Typical L vs Frequency



Current Derating



* Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.005 in / 0,13 mm.

† Height dimension is after mounting. For maximum height dimension before mounting, add 0.006 in / 0,152 mm.

Dimensions are in $\frac{\text{inches}}{\text{mm}}$