SMD Power Inductor

Fixed Inductor for Surface Mounting — SPL10080-00Y/MA Series

Construction

- Mn Ferrite core
- Shielded construction

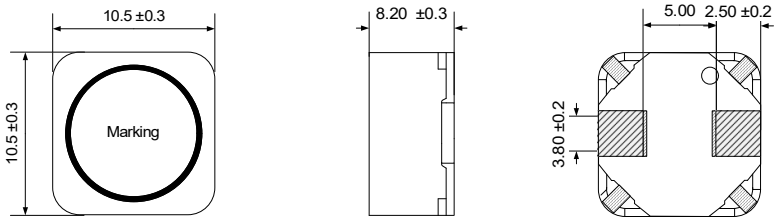
Features

- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering

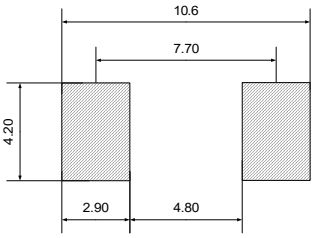
Applications

- Automotive / Noise filtering and filter chokes
- DC/DC converters
- Portable gaming devices / personal navigation systems
- multimedia devices
- Portable and devices

Dimensions(Unit:mm)



Recommended Land Pattern(Unit:mm)



Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,±30%)	Isat*1(A,TYP)	Isat*1(A,MAX)	Irms*2(A,MAX)	Marking
SPL10080-1R5N-00MA	1.50±30%	17.0	30.0	27.0	10.4	1R5
SPL10080-2R2N-00MA	2.20±30%	19.5	26.0	24.0	8.50	2R2
SPL10080-3R0N-00MA	3.00±30%	22.0	23.0	20.0	7.10	3R0
SPL10080-3R3N-00YA	3.30±30%	12.0	19.0	17.5	8.00	3R3
SPL10080-3R6N-00MA	3.60±30%	25.0	20.0	16.5	6.60	3R6

※Test Equipment

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

***Notes**

*1.Isat : DC current at which the inductance drops approximate 30%

*2.Irms : DC current that will cause an approximate ΔT of 40 °C

*Specifications subject to change without notice. Please check our website for latest information.

Revised 05/03/26

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SPL10080-3R6N-00YA	3.60±30%	13.5	18.0	16.5	7.70	3R6
SPL10080-4R7M-00MA	4.70±20%	28.0	17.0	14.8	6.10	4R7
SPL10080-4R7M-00YA	4.70±20%	15.0	17.5	16.0	7.50	4R7
SPL10080-5R6M-00MA	5.60±20%	34.0	15.0	13.4	5.60	5R6
SPL10080-5R6M-00YA	5.60±20%	18.5	15.5	15.0	7.20	5R6
SPL10080-6R8M-00MA	6.80±20%	37.0	14.2	12.8	5.20	6R8
SPL10080-6R8M-00YA	6.80±20%	20.0	14.8	13.2	6.85	6R8
SPL10080-8R2M-00MA	8.20±20%	40.5	12.6	11.5	4.70	8R2
SPL10080-8R2M-00YA	8.20±20%	21.5	13.0	12.2	6.60	8R2
SPL10080-100M-00MA	10.0±20%	48.0	12.0	9.70	4.30	100
SPL10080-100M-00YA	10.0±20%	24.0	12.3	11.4	6.48	100
SPL10080-150M-00MA	15.0±20%	59.0	9.00	8.50	3.90	150
SPL10080-150M-00YA	15.0±20%	32.0	9.50	8.80	5.50	150
SPL10080-220M-00MA	22.0±20%	58.0	8.00	7.60	3.80	220
SPL10080-330M-00MA	33.0±20%	75.0	7.00	6.30	3.00	330
SPL10080-470M-00MA	47.0±20%	103.0	5.70	5.20	2.60	470
SPL10080-560M-00MA	56.0±20%	129.0	5.00	4.70	2.35	560
SPL10080-680M-00MA	68.0±20%	145.0	4.80	4.40	2.20	680
SPL10080-820M-00MA	82.0±20%	185.0	4.20	3.90	2.10	820
SPL10080-101M-00MA	100.0±20%	200.0	3.80	3.40	1.95	101
SPL10080-151M-00MA	150.0±20%	310.0	3.10	2.80	1.46	151
SPL10080-221M-00MA	220.0±20%	440.0	2.50	2.30	1.15	221
SPL10080-331M-00MA	330.0±20%	660.0	2.00	1.80	1.00	331
SPL10080-471M-00MA	470.0±20%	945.0	1.80	1.50	0.92	471
SPL10080-561M-00MA	560.0±20%	1.04Ω	1.60	1.30	0.85	561

※Test Equipment

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SPL10080-681M-00MA	680.0±20%	1.30Ω	1.40	1.10	0.78	681
SPL10080-821M-00MA	820.0±20%	1.55Ω	1.30	1.00	0.68	821
SPL10080-102M-00MA	1.000±20%	2.07Ω	1.20	0.95	0.50	102

※Test Equipment

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