

SHIELDED SMD POWER INDUCTOR



PSM63 SERIES



- High current inductor for VRM
- Low profile (3.0mm height)
- High current handling capacity
- Inductance range from 0.10 to 10.0 μ H
- Operating temperature range: -55°C to +125°C
- RoHS compliant product

ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance (μ H) $\pm 20\%$	DCR (m Ω) Typ	DCR (m Ω) Max	I _{DC} (A) Max	I _{SAT} (A) Max
PSM63-R10M	0.10	1.5	1.7	32.5	60.0
R15M	0.15	1.9	2.5	30.0	45.0
R20M	0.20	2.4	2.8	24.0	41.0
R22M	0.22	2.5	3.0	23.0	40.0
R33M	0.33	3.5	3.9	20.0	30.0
R36M	0.36	3.6	3.9	20.0	26.0
R47M	0.47	4.0	4.2	17.5	26.0
R56M	0.56	4.7	5.0	16.5	25.5
R68M	0.68	5.0	5.5	15.5	25.0
R82M	0.82	6.7	8.0	13.0	24.0
1R0M	1.0	9.0	10	11.0	22.0
1R5M	1.5	14	15	9.0	18.0
2R2M	2.2	18	20	8.0	14.0
2R5M	2.5	20	22	7.0	14.0
3R3M	3.3	28	30	6.0	13.5
4R7M	4.7	37	40	5.5	10.0
5R6M	5.6	39	42	5.5	6.0
6R8M	6.8	54	60	4.5	8.0
7R5M	7.5	54	60	4.2	7.8
8R2M	8.2	64	68	4.0	7.5
100M	10.0	102	105	3.0	7.0

- Inductance measured at 100kHz / 0.1V_{RMS}
- I_{DC}: DC current (A) at which the ΔT of 40°C increase typical
- I_{SAT}: DC current (A) for a ΔL drop 30% typical from initial value
- Inductance tolerance M=20%

Dimensions

Unless otherwise specified, all tolerances are:
 inch: .XX : ± 0.010 .XXX : ± 0.005
 mm: X,X : $\pm 0,254$ X,XX : $\pm 0,13$

Product performance is limited to specified parameters. Data is subject to change without prior notice.

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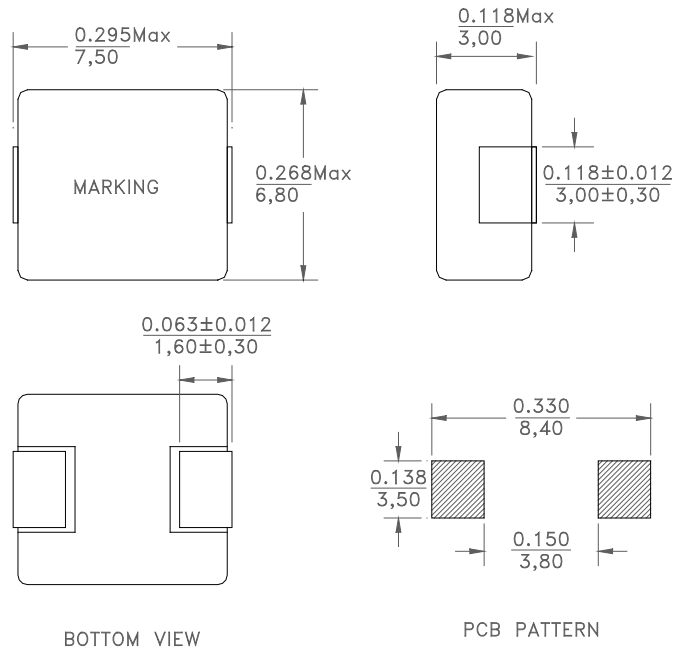
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DIMENSIONS



BOTTOM VIEW

PCB PATTERN

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