

# 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  $\mu$ H
- Operating temperature range: -55°C to +125°C
- RoHS compliant product

## ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ( $\mu$ H) $\pm 20\%$	DCR (m $\Omega$ ) Typ	DCR (m $\Omega$ ) Max	I <sub>DC</sub> (A) Max	I <sub>SAT</sub> (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<sub>RMS</sub>
- I<sub>DC</sub>: DC current (A) at which the  $\Delta T$  of 40°C increase typical
- I<sub>SAT</sub>: DC current (A) for a  $\Delta L$  drop 30% typical from initial value
- Inductance tolerance M=20%

### Dimensions

Unless otherwise specified, all tolerances are:  
 inch: .XX :  $\pm 0.010$  .XXX :  $\pm 0.005$   
 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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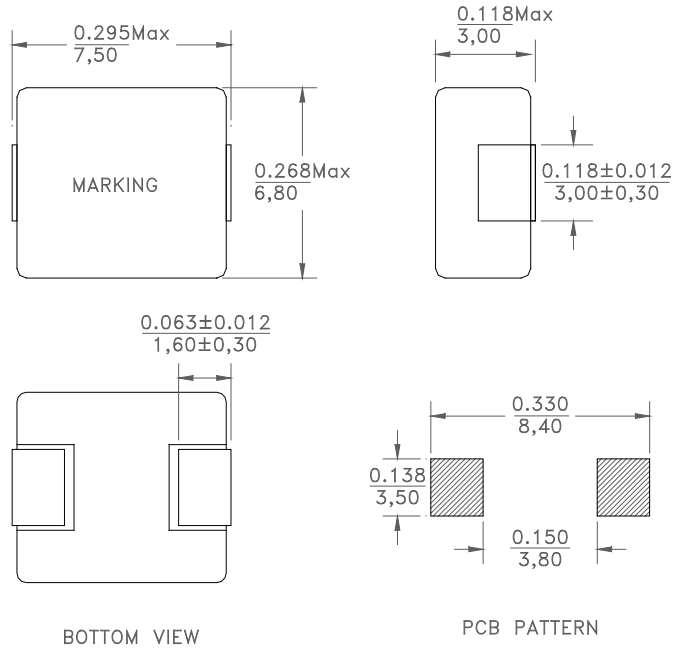
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