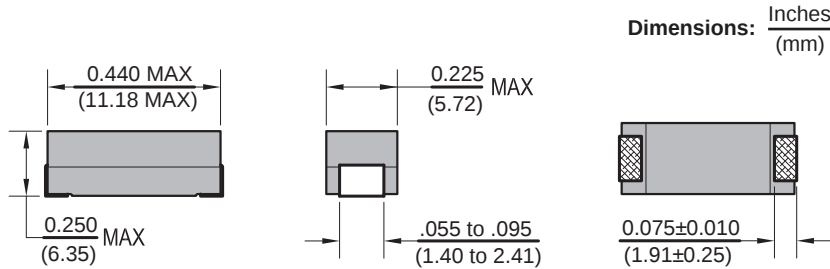


SMPC3825

Surface Mount Power Choke



Features

- SMD Molded High Current Choke
- Wide Inductance Range
- Rohs Compliant
- Tape and Reel for Auto Insertion
- Cross to Vishay IHSM3825

Electrical

Inductance Range: 1.0 μ h ~ 1000 μ h
Tolerance: 15% over entire range
 Also available in tighter tolerances.
Test Frequency: 1KHz over entire range
Operating Temp: -55°C ~ +125°C
Current Rating: Based on a 40°C Temp Rise.
IDC: The current at which the inductance will drop no more than 5% of its initial value with no DC current.

Resistance to Solder Heat

Reflow 260°C 10 seconds

Test Equipment

(L): CH1-100 1KHz
(RDC): Chen Hwa CH-301 DCR Meter
(IDC): Chen Hwa CH-301 & DCR Meter

Physical

Packaging: 800 / reel.
Marking: EIA Inductance Code.

Allied Part Number	Inductance (μ h)	Tolerance (%)	DCR Max. (Ω)	Current Rating (Amps) Max	Incremental Current (Amps)
SMPC3825-1R0L-RC	1.0	15	0.015	5.11	4.41
SMPC3825-1R2L-RC	1.2	15	0.016	4.93	4.11
SMPC3825-1R5L-RC	1.5	15	0.017	4.63	3.66
SMPC3825-1R8L-RC	1.8	15	0.022	4.27	3.22
SMPC3825-2R2L-RC	2.2	15	0.031	3.61	2.62
SMPC3825-2R7L-RC	2.7	15	0.038	3.18	2.40
SMPC3825-3R3L-RC	3.3	15	0.045	2.94	2.13
SMPC3825-3R9L-RC	3.9	15	0.062	2.57	2.05
SMPC3825-4R7L-RC	4.7	15	0.083	2.17	1.93
SMPC3825-5R6L-RC	5.6	15	0.091	2.08	1.79
SMPC3825-6R8L-RC	6.8	15	0.101	1.94	1.62
SMPC3825-8R2L-RC	8.2	15	0.118	1.83	1.50
SMPC3825-100L-RC	10	15	0.126	1.74	1.36
SMPC3825-120L-RC	12	15	0.170	1.50	1.26
SMPC3825-150L-RC	15	15	0.228	1.29	1.11
SMPC3825-180L-RC	18	15	0.306	1.13	1.05
SMPC3825-220L-RC	22	15	0.336	1.05	0.96
SMPC3825-270L-RC	27	15	0.389	0.98	0.86
SMPC3825-330L-RC	33	15	0.440	0.92	0.75
SMPC3825-390L-RC	39	15	0.490	0.86	0.72
SMPC3825-470L-RC	47	15	0.646	0.74	0.68
SMPC3825-560L-RC	56	15	0.845	0.65	0.64
SMPC3825-680L-RC	68	15	1.040	0.61	0.58
SMPC3825-820L-RC	82	15	1.240	0.56	0.51
SMPC3825-101L-RC	100	15	1.440	0.48	0.42
SMPC3825-121L-RC	120	15	2.180	0.45	0.40
SMPC3825-151L-RC	150	15	2.900	0.38	0.37
SMPC3825-181L-RC	180	15	3.280	0.36	0.33
SMPC3825-221L-RC	220	15	3.650	0.34	0.28
SMPC3825-271L-RC	270	15	4.400	0.29	0.26
SMPC3825-331L-RC	330	15	5.070	0.27	0.23
SMPC3825-391L-RC	390	15	5.900	0.23	0.20
SMPC3825-471L-RC	470	15	7.670	0.22	0.19
SMPC3825-561L-RC	560	15	8.850	0.21	0.17
SMPC3825-681L-RC	680	15	10.200	0.18	0.15
SMPC3825-821L-RC	820	15	11.580	0.17	0.14
SMPC3825-102L-RC	1000	15	12.970	0.16	0.13

All specifications subject to change without notice.