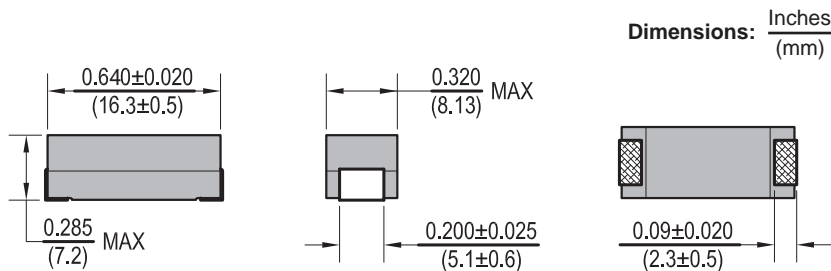


# SMPC5832

# Surface Mount Power Choke



- Features**
- SMD Molded High Current Choke
  - Wide Inductance Range
  - Rohs Compliant
  - Tape and Reel for Auto Insertion
  - Cross to Vishay IHSM-5832

**Electrical**

**Inductance Range:** 1.0 $\mu$ h ~ 18,000 $\mu$ h  
**Tolerance:** 15% over entire range  
**Test Frequency:** 1KHz  
**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:** 500 / reel.  
**Marking:** EIA Inductance Code.

Allied Part Number	Inductance ( $\mu$ h)	Tolerance (%)	DCR Max. ( $\Omega$ )	Current Rating (Amps) Max	Incremental Current (Amps)
SMPC5832-1R0L-RC	1.0	15	0.010	9.00	6.2
SMPC5832-1R2L-RC	1.2	15	0.011	8.80	5.6
SMPC5832-1R5L-RC	1.5	15	0.012	8.70	5.0
SMPC5832-1R8L-RC	1.8	15	0.013	8.60	4.4
SMPC5832-2R2L-RC	2.2	15	0.015	8.50	4.0
SMPC5832-2R7L-RC	2.7	15	0.017	8.40	3.7
SMPC5832-3R3L-RC	3.3	15	0.020	8.30	3.4
SMPC5832-3R9L-RC	3.9	15	0.021	7.90	3.1
SMPC5832-4R7L-RC	4.7	15	0.023	7.40	2.8
SMPC5832-5R6L-RC	5.6	15	0.024	7.00	2.6
SMPC5832-6R8L-RC	6.8	15	0.038	6.10	2.3
SMPC5832-8R2L-RC	8.2	15	0.047	5.10	2.0
SMPC5832-100L-RC	10	15	0.053	4.30	1.8
SMPC5832-120L-RC	12	15	0.068	3.90	1.7
SMPC5832-150L-RC	15	15	0.078	3.50	1.6
SMPC5832-180L-RC	18	15	0.083	3.20	1.5
SMPC5832-220L-RC	22	15	0.120	2.80	1.3
SMPC5832-270L-RC	27	15	0.140	2.30	1.2
SMPC5832-330L-RC	33	15	0.170	1.90	1.1
SMPC5832-390L-RC	39	15	0.190	1.80	1.03
SMPC5832-470L-RC	47	15	0.215	1.77	0.93
SMPC5832-560L-RC	56	15	0.236	1.71	0.90
SMPC5832-680L-RC	68	15	0.305	1.43	0.82
SMPC5832-820L-RC	82	15	0.357	1.14	0.75
SMPC5832-101L-RC	100	15	0.452	0.95	0.68
SMPC5832-121L-RC	120	15	0.530	0.88	0.63
SMPC5832-151L-RC	150	15	0.609	0.82	0.58
SMPC5832-181L-RC	180	15	0.809	0.75	0.54
SMPC5832-221L-RC	220	15	1.10	0.69	0.48
SMPC5832-271L-RC	270	15	1.27	0.64	0.43
SMPC5832-331L-RC	330	15	1.42	0.59	0.38
SMPC5832-391L-RC	390	15	1.89	0.54	0.34
SMPC5832-471L-RC	470	15	2.21	0.49	0.31
SMPC5832-561L-RC	560	15	2.42	0.46	0.28
SMPC5832-681L-RC	680	15	2.73	0.43	0.25
SMPC5832-821L-RC	820	15	3.78	0.40	0.23
SMPC5832-102L-RC	1000	15	4.20	0.37	0.21
SMPC5832-122L-RC	1200	15	5.51	0.32	0.19
SMPC5832-152L-RC	1500	15	7.35	0.29	0.17
SMPC5832-182L-RC	1800	15	8.66	0.25	0.16
SMPC5832-222L-RC	2200	15	9.71	0.22	0.14
SMPC5832-272L-RC	2700	15	11.29	0.20	0.13
SMPC5832-332L-RC	3300	15	15.60	0.18	0.12
SMPC5832-392L-RC	3900	15	20.74	0.16	0.11
SMPC5832-472L-RC	4700	15	23.10	0.14	0.10
SMPC5832-562L-RC	5600	15	26.40	0.12	0.082
SMPC5832-682L-RC	6800	15	29.90	0.10	0.082
SMPC5832-822L-RC	8200	15	32.20	0.08	0.065
SMPC5832-103L-RC	10000	15	38.10	0.06	0.050
SMPC5832-123L-RC	12000	15	45.20	0.04	0.050
SMPC5832-153L-RC	15000	15	48.30	0.04	0.039
SMPC5832-183L-RC	18000	15	52.50	0.04	0.039

All specifications subject to change without notice.