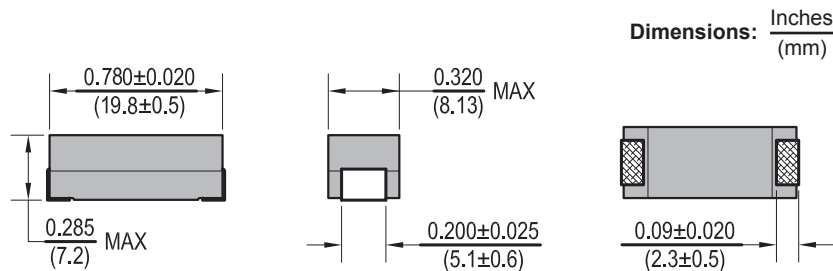


# SMPC7832 Surface Mount Power Choke



- Features**
- SMD Molded High Current Choke
  - Wide Inductance Range
  - Rohs Compliant
  - Tape and Reel for Auto Insertion

**Electrical**

**Inductance Range:** 1.0 $\mu$ H - 18,000 $\mu$ H  
**Tolerance:** 15% over entire range  
 Also available in tighter tolerances.  
**Test Frequency:** 1KHz over entire range  
**Operating Temp:**  
 -55°C ~ +125°C (No Load)  
 -55°C ~ +85°C (Full Load)

**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)
SMPC7832-1R0L-RC	1.0	15	0.011	9.00	5.3
SMPC7832-1R2L-RC	1.2	15	0.012	8.80	4.8
SMPC7832-1R5L-RC	1.5	15	0.012	8.60	4.4
SMPC7832-1R8L-RC	1.8	15	0.013	8.50	4.0
SMPC7832-2R2L-RC	2.2	15	0.014	8.40	3.6
SMPC7832-2R7L-RC	2.7	15	0.016	8.20	3.2
SMPC7832-3R3L-RC	3.3	15	0.017	8.10	2.8
SMPC7832-3R9L-RC	3.9	15	0.020	7.30	2.6
SMPC7832-4R7L-RC	4.7	15	0.023	6.70	2.4
SMPC7832-5R6L-RC	5.6	15	0.025	6.00	2.3
SMPC7832-6R8L-RC	6.8	15	0.028	5.60	2.1
SMPC7832-8R2L-RC	8.2	15	0.032	5.30	1.9
SMPC7832-100L-RC	10	15	0.036	5.00	1.7
SMPC7832-120L-RC	12	15	0.040	4.80	1.5
SMPC7832-150L-RC	15	15	0.043	4.50	1.4
SMPC7832-180L-RC	18	15	0.047	4.20	1.3
SMPC7832-220L-RC	22	15	0.054	3.80	1.2
SMPC7832-270L-RC	27	15	0.074	3.40	1.1
SMPC7832-330L-RC	33	15	0.084	3.00	0.99
SMPC7832-390L-RC	39	15	0.095	2.80	0.93
SMPC7832-470L-RC	47	15	0.120	2.60	0.87
SMPC7832-560L-RC	56	15	0.140	2.40	0.82
SMPC7832-680L-RC	68	15	0.160	2.10	0.76
SMPC7832-820L-RC	82	15	0.184	1.90	0.72
SMPC7832-101L-RC	100	15	0.226	1.70	0.68
SMPC7832-121L-RC	120	15	0.305	1.50	0.61
SMPC7832-151L-RC	150	15	0.362	1.40	0.54
SMPC7832-181L-RC	180	15	0.399	1.30	0.48
SMPC7832-221L-RC	220	15	0.536	1.10	0.44
SMPC7832-271L-RC	270	15	0.599	0.95	0.40
SMPC7832-331L-RC	330	15	0.714	0.86	0.36
SMPC7832-391L-RC	390	15	0.819	0.80	0.33
SMPC7832-471L-RC	470	15	1.10	0.74	0.31
SMPC7832-561L-RC	560	15	1.20	0.68	0.29
SMPC7832-681L-RC	680	15	1.58	0.63	0.26
SMPC7832-821L-RC	820	15	2.08	0.573	0.23
SMPC7832-102L-RC	1000	15	2.42	0.51	0.21
SMPC7832-122L-RC	1200	15	2.68	0.46	0.19
SMPC7832-152L-RC	1500	15	3.15	0.40	0.17
SMPC7832-182L-RC	1800	15	4.20	0.34	0.15
SMPC7832-222L-RC	2200	15	4.62	0.31	0.135
SMPC7832-272L-RC	2700	15	6.30	0.29	0.12
SMPC7832-332L-RC	3300	15	7.09	0.27	0.11
SMPC7832-392L-RC	3900	15	9.14	0.25	0.10
SMPC7832-472L-RC	4700	15	10.6	0.23	0.09
SMPC7832-562L-RC	5600	15	11.8	0.21	0.08
SMPC7832-682L-RC	6800	15	15.8	0.19	0.0775
SMPC7832-822L-RC	8200	15	21.8	0.17	0.0725
SMPC7832-103L-RC	10000	15	24.6	0.16	0.07
SMPC7832-123L-RC	12000	15	28.4	0.14	0.0625
SMPC7832-153L-RC	15000	15	37.8	0.12	0.055
SMPC7832-183L-RC	18000	15	44.1	0.11	0.05

All specifications subject to change without notice.