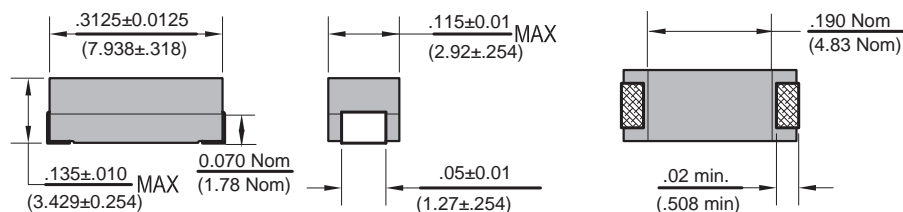


SMP3013 Surface Mount Power Chip Inductor



Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



- Features**
- SMD Molded Construction
 - Wide Inductance Range
 - RoHS Compliant
 - Tape and Reel for Auto Insertion

Electrical

Inductance Range: 1.0 μ h ~ 4,700 μ h
Tolerance: 10% over entire range
 Also available in tighter tolerances
Test Frequency: 1KHz over entire Inductance Range
Operating Temp: -55°C to +125°C
Current Rating: Based on a 40° 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): HP4263B
 (IDC): 11021 Current Source & DCR Meter
 (RDC): HP4263B Current Source and DCR Meter

Physical

Packaging: 1500 pieces/reel.
Marking: EIA Inductance Code.

Allied Part Number	Inductance (μ h)	Tolerance (%)	DCR Max. (Ω)	Current Rating Max. mA DC	Incremental Current mA DC
SMP3013-1R0K-RC	1.0	10	0.035	2780	1526
SMP3013-1R2K-RC	1.2	10	0.041	2690	1400
SMP3013-1R5K-RC	1.5	10	0.043	2030	1291
SMP3013-1R8K-RC	1.8	10	0.048	1950	1180
SMP3013-2R2K-RC	2.2	10	0.075	1690	1104
SMP3013-2R7K-RC	2.7	10	0.080	1550	936
SMP3013-3R3K-RC	3.3	10	0.108	1460	840
SMP3013-3R9K-RC	3.9	10	0.118	1390	732
SMP3013-4R7K-RC	4.7	10	0.125	1330	720
SMP3013-5R6K-RC	5.6	10	0.145	1110	612
SMP3013-6R8K-RC	6.8	10	0.165	1080	600
SMP3013-8R2K-RC	8.2	10	0.180	1020	600
SMP3013-100K-RC	10	10	0.216	946	564
SMP3013-120K-RC	12	10	0.252	912	516
SMP3013-150K-RC	15	10	0.288	858	432
SMP3013-180K-RC	18	10	0.328	817	420
SMP3013-220K-RC	22	10	0.384	694	348
SMP3013-270K-RC	27	10	0.425	657	324
SMP3013-330K-RC	33	10	0.538	568	270
SMP3013-390K-RC	39	10	0.600	488	270
SMP3013-470K-RC	47	10	0.792	467	246
SMP3013-560K-RC	56	10	0.900	442	216
SMP3013-680K-RC	68	10	1.020	384	174
SMP3013-820K-RC	82	10	1.380	362	150
SMP3013-101K-RC	100	10	1.680	347	132
SMP3013-121K-RC	120	10	1.800	327	111
SMP3013-151K-RC	150	10	2.040	272	106
SMP3013-181K-RC	180	10	2.400	261	89
SMP3013-221K-RC	220	10	2.648	223	72
SMP3013-271K-RC	270	10	4.320	191	60
SMP3013-331K-RC	330	10	4.800	179	57
SMP3013-391K-RC	390	10	5.640	171	48
SMP3013-471K-RC	470	10	6.000	161	41
SMP3013-561K-RC	560	10	6.960	138	35
SMP3013-681K-RC	680	10	8.760	130	30
SMP3013-821K-RC	820	10	9.960	113	26
SMP3013-102K-RC	1000	10	11.16	105	22
SMP3013-122K-RC	1200	10	14.00	85	20
SMP3013-152K-RC	1500	10	18.00	75	18
SMP3013-182K-RC	1800	10	23.00	60	16
SMP3013-222K-RC	2200	10	29.00	55	14
SMP3013-272K-RC	2700	10	36.00	50	12
SMP3013-332K-RC	3300	10	42.00	40	10
SMP3013-392K-RC	3900	10	52.00	35	8
SMP3013-472K-RC	4700	10	70.00	30	5

All specifications subject to change without notice.