

SMD INDUCTORS

B6010 SERIES



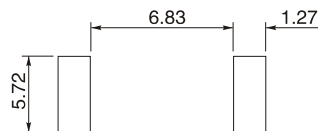
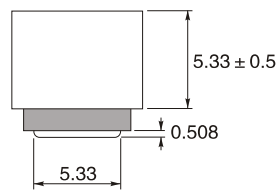
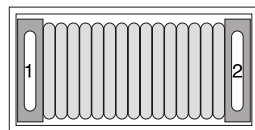
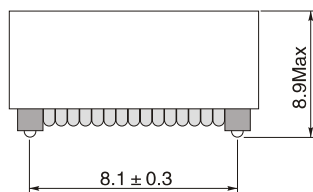
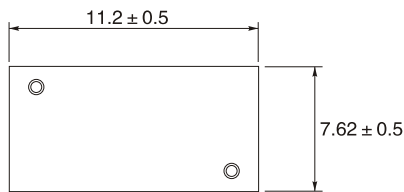
FEATURES:

- Over 45 standard inductive values covering a range of 1.0 μ H to 6.8 mH with rated currents of up to 1.8 A
- Uses a nonconductive, high-volume resistivity, low-loss ferrite material
- Storage temperature range: -55°C to +130°C
- Operating temperature range: -40°C to +130°C
- Square -shaped encapsulation cover and flat top make this component highly suitable for automated pick and place assembly

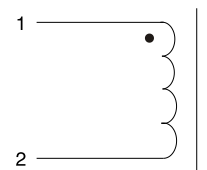
PHYSICAL CHARACTERISTICS:

WINDING:

Dimensions(mm)



LAND PATTERN



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (μ H) @ 1KHz	DCR Max. (Ω).	AC Rated current(A)	DC Saturation current(A) 5%L drop	DC Saturation current(A) 10%L drop
B6010-1R0M	1.0	0.012	1.8	16.2	18.2
B6010-1R2M	1.2	0.013	1.8	15.3	17.1
B6010-1R5M	1.5	0.014	1.8	14.4	16.2
B6010-1R8M	1.8	0.015	1.8	9.0	13.5
B6010-2R2M	2.2	0.022	1.4	8.6	10.8
B6010-2R7M	2.7	0.032	1.2	8.1	9.9
B6010-3R3M	3.3	0.034	1.2	7.7	8.1
B6010-3R9M	3.9	0.065	0.70	6.5	7.2
B6010-4R7M	4.7	0.068	0.70	5.5	6.5
B6010-5R6M	5.6	0.073	0.70	5.2	6.2
B6010-6R8M	6.8	0.077	0.70	5.0	6.0
B6010-8R2M	8.2	0.081	0.70	4.8	5.9

Tolerance for values from 1uH to 10uH are $\pm$ 20%, All other values are $\pm$ 10%

Tolerance code: M= $\pm$ 20%, K= $\pm$ 10%

ELECTRICAL CHARACTERISTICS:@25°C

Part Number	Inductance (μH) @1KHz	DCR Max. (Ω).	AC Rated current(A)	DC Saturation current(A) 5%L drop	DC Saturation current(A) 10%L drop
B6010-100M	10.0	0.103	0.70	4.7	5.4
B6010-120K	12.0	0.107	0.70	4.4	4.8
B6010-150K	15.0	0.112	0.70	4.1	4.5
B6010-180K	18.0	0.125	0.70	3.8	4.3
B6010-220K	22.0	0.167	0.60	3.0	3.2
B6010-270K	27.0	0.218	0.50	2.6	2.9
B6010-330K	33.0	0.308	0.30	2.4	2.7
B6010-390K	39.0	0.340	0.30	2.3	2.5
B6010-470K	47.0	0.370	0.30	2.1	2.3
B6010-560	56.0	0.409	0.30	1.9	2.2
B6010-680K	68.0	0.449	0.30	1.8	2.0
B6010-820K	82.0	0.488	0.30	1.7	1.9
B6010-101K	100.0	0.961	0.20	1.6	1.8
B6010-121K	120.0	1.03	0.20	1.4	1.7
B6010-151K	150.0	1.08	0.20	1.4	1.6
B6010-181K	180.0	1.19	0.20	1.3	1.4
B6010-221K	220.0	1.25	0.20	1.2	1.4
B6010-271K	270.0	1.56	0.15	1.1	1.3
B6010-331K	330.0	1.80	0.15	1.0	1.2
B6010-391K	390.0	2.62	0.12	0.9	1.1
B6010-471K	470.0	2.88	0.12	0.81	0.90
B6010-561K	560.0	3.83	0.10	0.72	0.81
B6010-681K	680.0	4.20	0.10	0.58	0.70
B6010-821K	820.0	4.53	0.10	0.54	0.63
B6010-102K	1000.0	4.79	0.10	0.52	0.61
B6010-122K	1200.0	6.34	0.075	0.49	0.56
B6010-152K	1500.0	7.30	0.075	0.46	0.49
B6010-182K	1800.0	11.22	0.06	0.43	0.47
B6010-222K	2200.0	12.41	0.06	0.38	0.43
B6010-272K	2700.0	16.10	0.06	0.28	0.31
B6010-332K	3300.0	18.35	0.06	0.26	0.29
B6010-392K	3900.0	24.82	0.06	0.25	0.28
B6010-472K	4700.0	25.48	0.03	0.23	0.26
B6010-562K	5600.0	31.83	0.03	0.21	0.23
B6010-682K	6800.0	36.90	0.03	0.19	0.21

Tolerance for values from 1uH to 10uH are ± 20%, All other values are ± 10%
Tolerance code: M= ± 20%, K= ± 10%

Note:

- Testing: (Equivalent acceptable)
Inductance..... HP4284A, 1.0KHz / 0.1Vdc@25°C
RDC.....QuadTech 1880 Milliohm meter
- Operating temperature.....-40°C to +130°C
- Storage Temperature.....-55°C to +130°C
- Packaging.....Available in bulk and/or 450 piece tape and reel.