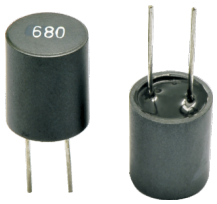
FEATURES



- Low cost.
- Wide range of inductance.
- Small mounting space required.
- The other types with low DCR, large current, best for the power supply line.

APPLICATIONS

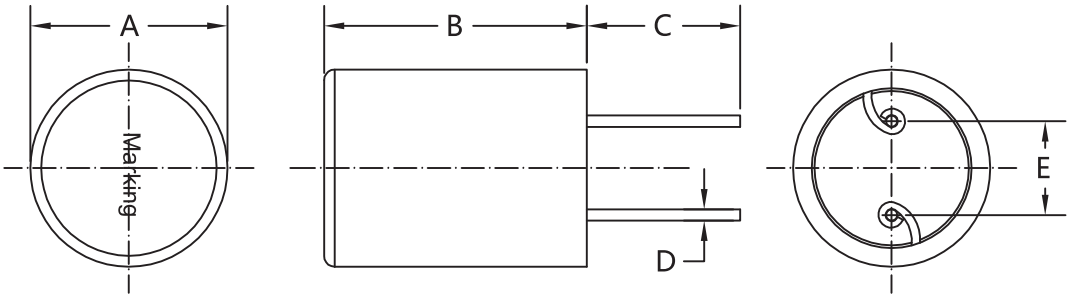
- Power supplies, DC-DC converters, TVs, VTRs, computer, computer peripherals, home electric appliance, ect.

PRODUCT IDENTIFICATION

PKB 1012 – 4R7 M - B
a b c d e

a : Series name
b : Product dimensions
c : Inductance Value (1R0:1.0uH; 100: 10uH; 101:100uH)
d : Inductance Tolerance (K:10% ; M:20% ; N:30%)
e : Packaging style (T: Taping; B: bulk)

SHAPES AND DIMENSIONS Unit: mm



Series	Dimensions(mm)				
	A Max.	B Max.	C Ref.	D Ref.	E Ref.
PKB1010	11.0	11.0	15.0	0.65	5.0
PKB1012	11.0	13.0	15.0	0.65	5.0
PKB1014	11.0	15.0	15.0	0.65	5.0
PKB1214	13.0	15.0	15.0	0.80	5.0

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
PKB1010-100MB	10.0	1.0	0.018	1.00
PKB1010-150MB	15.0	1.0	0.020	0.810
PKB1010-180MB	18.0	1.0	0.023	0.765
PKB1010-220MB	22.0	1.0	0.025	0.630
PKB1010-270MB	27.0	1.0	0.027	0.495
PKB1010-330MB	33.0	1.0	0.034	0.470
PKB1010-390MB	39.0	1.0	0.039	0.390
PKB1010-470MB	47.0	1.0	0.047	0.370
PKB1010-560MB	56.0	1.0	0.049	0.325
PKB1010-680MB	68.0	1.0	0.056	0.290
PKB1010-820MB	82.0	1.0	0.061	0.270
PKB1010-101MB	100.0	1.0	0.069	0.230
PKB1010-151MB	150.0	1.0	0.095	0.200
PKB1010-181MB	180.0	1.0	0.105	0.175
PKB1010-221MB	220.0	1.0	0.115	0.160
PKB1010-271MB	270.0	1.0	0.150	0.140
PKB1010-331MB	330.0	1.0	0.195	0.115
PKB1010-391MB	390.0	1.0	0.210	0.108
PKB1010-471MB	470.0	1.0	0.250	0.104
PKB1010-561MB	560.0	1.0	0.280	0.095
PKB1010-681MB	680.0	1.0	0.365	0.078
PKB1010-821MB	820.0	1.0	0.425	0.075
PKB1010-102MB	1000	1.0	0.470	0.068
PKB1010-122MB	1200	1.0	1.00	0.050
PKB1010-152MB	1500	1.0	5.90	0.046
PKB1010-182MB	1800	1.0	6.60	0.041
PKB1010-222MB	2200	1.0	7.80	0.037
PKB1010-272MB	2700	1.0	9.00	0.034
PKB1010-332MB	3300	1.0	10.00	0.030
PKB1010-392MB	3900	1.0	11.50	0.028
PKB1010-472MB	4700	1.0	12.60	0.025
PKB1010-562MB	5600	1.0	17.20	0.023
PKB1010-682MB	6800	1.0	19.00	0.020
PKB1010-822MB	8200	1.0	22.00	0.018
PKB1010-103MB	10000	1.0	25.0	0.015

Note:
Rated current: The DC current at which the inductance decreases to 70% of its initial value or when △t=40°C, whichever is lower(Ta=20°C)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
PKB1012-100MB	10.0	1.0	0.027	3.30
PKB1012-150MB	15.0	1.0	0.033	2.80
PKB1012-180MB	18.0	1.0	0.037	2.50
PKB1012-220MB	22.0	1.0	0.045	2.25
PKB1012-270MB	27.0	1.0	0.051	2.00
PKB1012-330MB	33.0	1.0	0.067	1.87
PKB1012-390MB	39.0	1.0	0.076	1.68
PKB1012-470MB	47.0	1.0	0.085	1.50
PKB1012-560MB	56.0	1.0	0.094	1.44
PKB1012-680MB	68.0	1.0	0.103	1.28
PKB1012-820MB	82.0	1.0	0.125	1.20
PKB1012-101MB	100.0	1.0	0.170	1.11
PKB1012-151MB	150.0	1.0	0.210	0.84
PKB1012-181MB	180.0	1.0	0.235	0.81
PKB1012-221MB	220.0	1.0	0.300	0.72
PKB1012-271MB	270.0	1.0	0.420	0.64
PKB1012-331MB	330.0	1.0	0.475	0.59
PKB1012-391MB	390.0	1.0	0.600	0.54
PKB1012-471MB	470.0	1.0	0.668	0.50
PKB1012-561MB	560.0	1.0	0.855	0.43
PKB1012-681MB	680.0	1.0	1.080	0.39
PKB1012-821MB	820.0	1.0	1.200	0.37
PKB1012-102MB	1000	1.0	1.380	0.33
PKB1012-122MB	1200	1.0	3.700	0.05
PKB1012-152MB	1500	1.0	4.00	0.04
PKB1012-182MB	1800	1.0	4.50	0.04
PKB1012-222MB	2200	1.0	5.20	0.04
PKB1012-272MB	2700	1.0	5.80	0.03
PKB1012-332MB	3300	1.0	6.10	0.03
PKB1012-392MB	3900	1.0	7.20	0.03
PKB1012-472MB	4700	1.0	7.50	0.02
PKB1012-562MB	5600	1.0	8.40	0.02
PKB1012-682MB	6800	1.0	9.70	0.02
PKB1012-822MB	8200	1.0	10.4	0.02
PKB1012-103MB	10000	1.0	12.1	0.01

Note:
Rated current: The DC current at which the inductance decreases to 70% of its initial value or when △t=40°C, whichever is lower(Ta=20°C)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
PKB1014-100MB	10.0	1.0	0.029	4.50
PKB1014-150MB	15.0	1.0	0.040	3.65
PKB1014-180MB	18.0	1.0	0.054	3.20
PKB1014-220MB	22.0	1.0	0.060	3.20
PKB1014-270MB	27.0	1.0	0.066	2.70
PKB1014-330MB	33.0	1.0	0.070	2.40
PKB1014-390MB	39.0	1.0	0.078	2.25
PKB1014-470MB	47.0	1.0	0.086	2.10
PKB1014-560MB	56.0	1.0	0.094	1.90
PKB1014-680MB	68.0	1.0	0.102	1.75
PKB1014-820MB	82.0	1.0	0.124	1.65
PKB1014-101MB	100.0	1.0	0.158	1.45
PKB1014-151MB	150.0	1.0	0.248	1.18
PKB1014-181MB	180.0	1.0	0.345	1.08
PKB1014-221MB	220.0	1.0	0.440	0.92
PKB1014-271MB	270.0	1.0	0.488	0.87
PKB1014-331MB	330.0	1.0	0.650	0.80
PKB1014-391MB	390.0	1.0	0.835	0.74
PKB1014-471MB	470.0	1.0	0.902	0.67
PKB1014-561MB	560.0	1.0	1.21	0.61
PKB1014-681MB	680.0	1.0	1.33	0.55
PKB1014-821MB	820.0	1.0	1.45	0.51
PKB1014-102MB	1000	1.0	2.05	0.46
PKB1014-122MB	1200	1.0	2.25	0.43
PKB1014-152MB	1500	1.0	2.50	0.37
PKB1014-182MB	1800	1.0	2.80	0.35
PKB1014-222MB	2200	1.0	3.90	0.30
PKB1014-272MB	2700	1.0	4.28	0.27
PKB1014-332MB	3300	1.0	7.68	0.26
PKB1014-392MB	3900	1.0	8.35	0.23
PKB1014-472MB	4700	1.0	9.10	0.21
PKB1014-562MB	5600	1.0	10.2	0.19
PKB1014-682MB	6800	1.0	15.4	0.18
PKB1014-822MB	8200	1.0	16.9	0.16
PKB1014-103MB	10000	1.0	23.5	0.15

Note:
Rated current: The DC current at which the inductance decreases to 70% of its initial value or when △t=40°C, whichever is lower(Ta=20°C)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
PKB1214-100MB	10.0	1.0	0.015	3.61
PKB1214-150MB	15.0	1.0	0.017	3.16
PKB1214-180MB	18.0	1.0	0.020	2.81
PKB1214-220MB	22.0	1.0	0.021	2.44
PKB1214-270MB	27.0	1.0	0.023	2.12
PKB1214-330MB	33.0	1.0	0.024	1.80
PKB1214-390MB	39.0	1.0	0.027	1.64
PKB1214-470MB	47.0	1.0	0.032	1.57
PKB1214-560MB	56.0	1.0	0.034	1.39
PKB1214-680MB	68.0	1.0	0.060	1.26
PKB1214-820MB	82.0	1.0	0.070	1.18
PKB1214-101MB	100.0	1.0	0.090	1.14
PKB1214-151MB	150.0	1.0	0.110	0.82
PKB1214-181MB	180.0	1.0	0.120	0.73
PKB1214-221MB	220.0	1.0	0.140	0.61
PKB1214-271MB	270.0	1.0	0.160	0.54
PKB1214-331MB	330.0	1.0	0.170	0.52
PKB1214-391MB	390.0	1.0	0.320	0.48
PKB1214-471MB	470.0	1.0	0.350	0.44
PKB1214-561MB	560.0	1.0	0.390	0.40
PKB1214-681MB	680.0	1.0	0.440	0.38
PKB1214-821MB	820.0	1.0	0.480	0.28
PKB1214-102MB	1000	1.0	0.530	0.27
PKB1214-122MB	1200	1.0	0.660	0.26
PKB1214-152MB	1500	1.0	0.860	0.23
PKB1214-182MB	1800	1.0	0.950	0.21
PKB1214-222MB	2200	1.0	1.070	0.18

Note:
Rated current: The DC current at which the inductance decreases to 70% of its initial value or when △t=40°C, whichever is lower(Ta=20°C)