

CTRLB9012F Series

From 1.0 μ H to 47,000 μ H



CHARACTERISTICS

- Description:** Radial leaded fixed inductor.
- Applications:** Power supplies, DC/DC converters, Filters, RFI Suppression, etc.
- Operating Temperature:** -55°C to +125°C
- Saturation Current:** Based on the inductance change within 5% of initial value and temperature rise of initial value less than 30°C within coil body.
- Inductance Tolerance:** $\pm 10\%$, $\pm 20\%$
- Testing:** Inductance is tested on an HP4284A at 1.0KHz.
- Packaging:** Bulk pack.
- Marking:** Parts are marked with inductance code.
- Miscellaneous:** **RoHS Compliant.**
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available.** See website for ordering information.

SPECIFICATIONS

Part numbers indicate available inductance tolerance:
K = $\pm 10\%$, M = $\pm 20\%$

Part Number	Inductance @1kHz (μ H)	Q Ref.	Q Test Freq. (MHz)	DCR Max. (Ω)	SRF Min. (MHz)	IDC Max. (mA)
CTRLB9012F-1R0M	1.0	20	7.96	0.013	150.0	10.0
CTRLB9012F-1R5M	1.5	20	7.96	0.016	100.0	8.50
CTRLB9012F-2R2M	2.2	20	7.96	0.021	90.0	6.50
CTRLB9012F-3R3M	3.3	20	7.96	0.025	65.0	5.50
CTRLB9012F-4R7M	4.7	20	7.96	0.030	51.0	4.60
CTRLB9012F-6R8K	6.8	20	7.96	0.035	29.0	4.10
CTRLB9012F-100K	10	50	2.52	0.045	14.0	3.40
CTRLB9012F-120K	12	50	2.52	0.050	13.0	3.10
CTRLB9012F-150K	15	50	2.52	0.056	12.0	2.90
CTRLB9012F-180K	18	40	2.52	0.061	11.0	2.66
CTRLB9012F-220K	22	40	2.52	0.070	9.2	2.40
CTRLB9012F-270K	27	40	2.52	0.080	8.5	2.22
CTRLB9012F-330K	33	30	2.52	0.090	7.8	2.05
CTRLB9012F-390K	39	30	2.52	0.100	6.9	1.85
CTRLB9012F-470K	47	30	2.52	0.160	6.5	1.77
CTRLB9012F-560K	56	30	2.52	0.180	5.4	1.48
CTRLB9012F-680K	68	30	2.52	0.210	4.9	1.36
CTRLB9012F-820K	82	30	2.52	0.230	4.1	1.30
CTRLB9012F-101K	100	20	0.796	0.280	3.7	1.40
CTRLB9012F-121K	120	20	0.796	0.320	3.4	1.25
CTRLB9012F-151K	150	20	0.796	0.370	3.2	1.15
CTRLB9012F-181K	180	20	0.796	0.580	2.8	1.08
CTRLB9012F-221K	220	20	0.796	0.650	2.7	1.00
CTRLB9012F-271K	270	20	0.796	0.750	2.4	0.90
CTRLB9012F-331K	330	20	0.796	0.850	2.3	0.78
CTRLB9012F-391K	390	20	0.796	1.00	2.1	0.74
CTRLB9012F-471K	470	20	0.796	1.10	1.9	0.68
CTRLB9012F-561K	560	20	0.796	1.40	1.8	0.64
CTRLB9012F-681K	680	20	0.796	1.60	1.6	0.59
CTRLB9012F-821K	820	20	0.796	1.80	1.5	0.56
CTRLB9012F-102K	1000	20	0.252	2.90	1.3	0.51
CTRLB9012F-122K	1200	15	0.252	3.40	1.2	0.48
CTRLB9012F-152K	1500	15	0.252	3.80	1.1	0.43
CTRLB9012F-182K	1800	15	0.252	5.30	1.0	0.39
CTRLB9012F-222K	2200	15	0.252	5.90	0.8	0.36
CTRLB9012F-272K	2700	15	0.252	8.20	0.70	0.32
CTRLB9012F-332K	3300	15	0.252	9.10	0.60	0.29
CTRLB9012F-392K	3900	15	0.252	9.90	0.55	0.27
CTRLB9012F-472K	4700	15	0.252	13.60	0.50	0.24
CTRLB9012F-562K	5600	15	0.252	14.90	0.45	0.22
CTRLB9012F-682K	6800	15	0.252	20.70	0.40	0.20
CTRLB9012F-822K	8200	15	0.252	22.70	0.35	0.18
CTRLB9012F-103K	10000	15	0.0796	25.10	0.32	0.17
CTRLB9012F-123K	12000	15	0.0796	34.70	0.28	0.15
CTRLB9012F-153K	15000	15	0.0796	48.90	0.25	0.14
CTRLB9012F-183K	18000	15	0.0796	53.60	0.23	0.12
CTRLB9012F-223K	22000	15	0.0796	59.30	0.21	0.11
CTRLB9012F-273K	27000	15	0.0796	82.70	0.19	0.10
CTRLB9012F-333K	33000	15	0.0796	91.50	0.17	0.09
CTRLB9012F-393K	39000	15	0.0796	125.50	0.15	0.08
CTRLB9012F-473K	47000	15	0.0796	137.80	0.12	0.08

PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
	Max.	Max.				
mm	9.0	12.2	18.0 \pm 5.0	25.0 \pm 5.0	0.66 \pm 0.05	5.00 \pm 0.80
inches	0.354	0.480	0.709 \pm 0.197	0.984 \pm 0.197	0.026 \pm 0.002	0.197 \pm 0.031

