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GENERAL

Coiltronics 1210 Series Chip Inductors are ideally suited for signal and moderate power circuit SMT applications.

Both the CTX32 and CTX32C Product Families are designed to provide superior reliability due to their rugged ceramic case construction. Precise manufacturing processes provide mechanically sound devices which maintain tolerance specifications. The devices are supplied in 8 mm tape and reel packaging which facilitates automatic assembly insertion.

Coiltronics designs and manufactures many standard and custom electro-magnetic components. Contact the factory or your nearest Coiltronics representative or distributor with your transformer and inductor requirements.

- Operating Temperature Range: -25°C to +85°C
- Storage Temperature Range: -40°C to +125°C
- Resistance to Soldering: Can withstand +260°C for up to 10 seconds
- Resistance to Solvents: Conforms to MIL-STD-202E
- Coefficient of Expansion: 6.7×10^{-6} ppm/°C (typical)
- Insulation Resistance: 1000 Mohms minimum
- Flammability: Conforms to IEC 695-2-2

CONSTRUCTION D.

FEATURE - BENEFITS

- 1210 Series form factor means small footprint and low profile for high density applications
- High Q Rating assures performance reliability
- Tape and Reel Packaging for automatic assembly insertion
- Precision ceramic casing allows high temperature surface mounting and excellent thermal conduction
- Triple-plated terminals enhance reliable solderability
- Available in inductance ranges from 0.1 to 470 μ H
- Low cost with high performance

RECOMMENDED P

ORDERING INFORMATION

CTX32 and CTX32X Product Families are supplied in 8mm tape and reel packaging. Each reel contains 2000 inductors.

All dimensions in mm.
Pad layout dimensions
are nominal.

Cl

CTX32 Product Family

CTX32 Product Family Chip Inductors are ideally suited for low level signal circuit applications.

DC BIAS CHARACTERISTICS

Coiltronics Part Number	Inductance μ H/TOL	Q Min	Test MHz	SRF Min.MHz	R _{DC} Max.Ohms	I _{DC} Rated mA
CTX32T-R12	0.12+/-20%	30	25.2	500	.22	450
CTX32T-R15	0.15			450	.25	450
CTX32T-R18	0.18			400	.28	450
CTX32T-R22	0.22			350	.32	450
CTX32T-R27	0.27			320	.36	450
CTX32T-R33	0.33			300	.40	450
CTX32T-R39	0.39			250	.45	450
CTX32T-R47	0.47			220	.50	450
CTX32T-R56	0.56			180	.55	450
CTX32T-R68	0.68			160	.60	450
CTX32T-R82	0.82			140	.65	450
CTX32T-1R0	1.0		7.96	120	.70	400
CTX32T-1R2	1.2			100	.75	390
CTX32T-1R5	1.5			85	.85	370
CTX32T-1R8	1.8			80	.90	350
CTX32T-2R2	2.2			75	1.00	320
CTX32T-2R7	2.7			70	1.10	290

1000

100

∞ H

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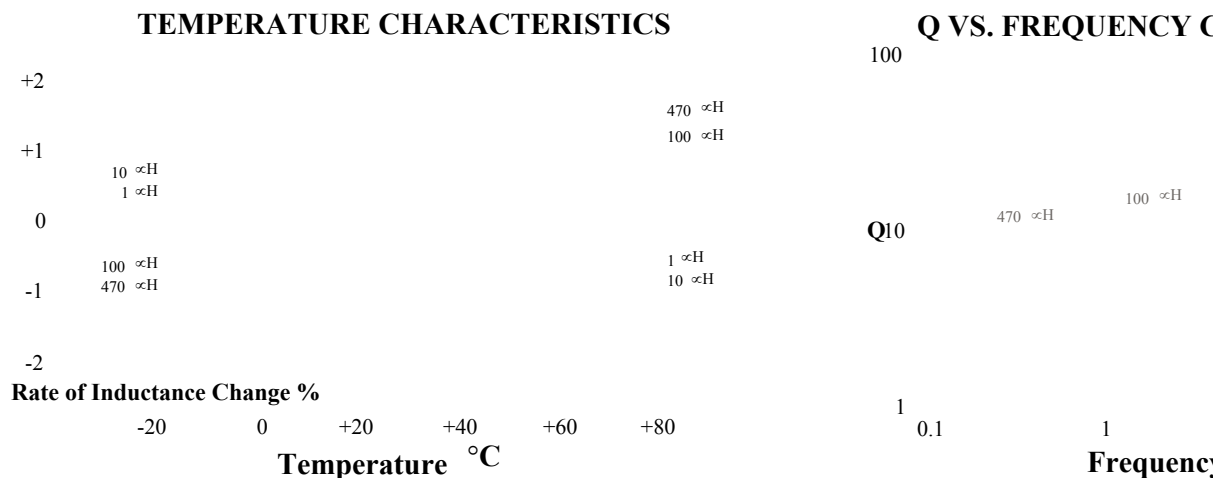
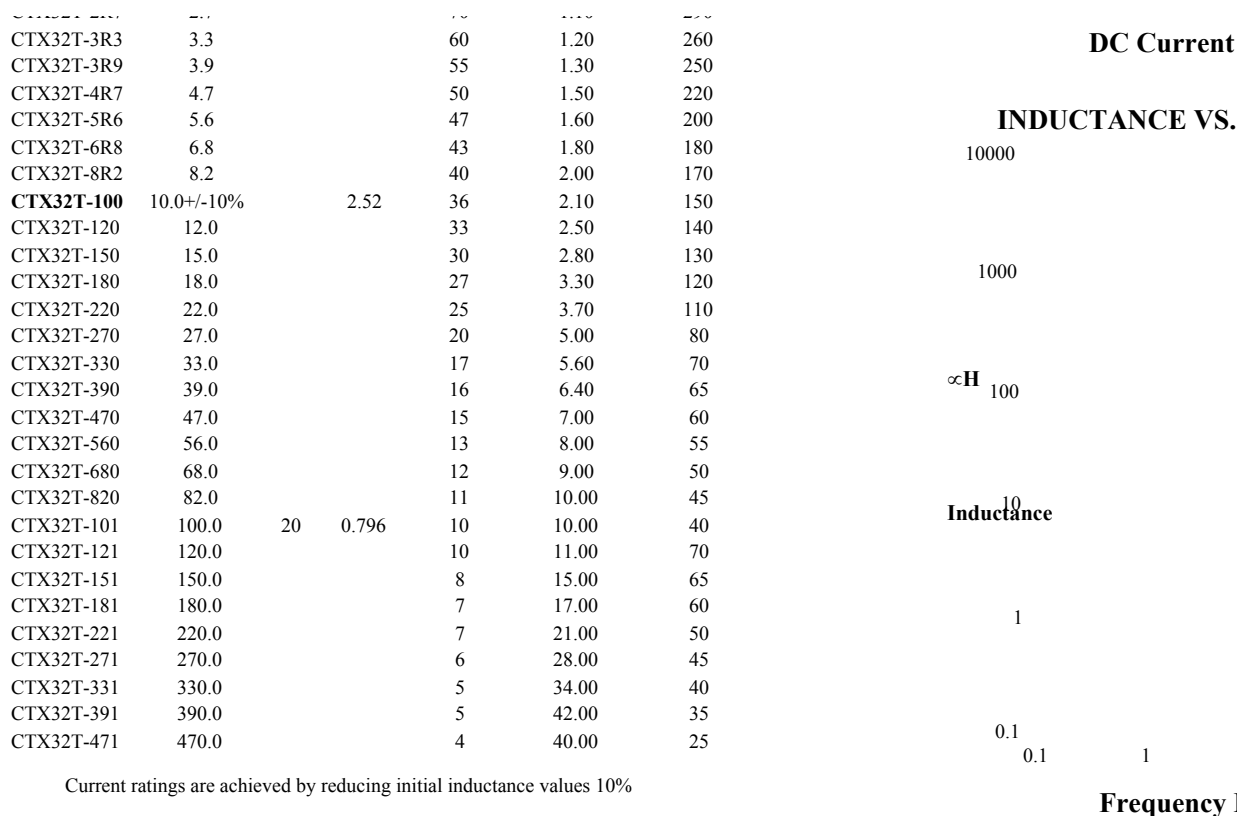
Inductance

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**CTX32C Product Family**

Coiltronics CTX32C Product Family Chip Inductors are ideally suited for moderate power circuit applications.

DC BIAS CHARACTERISTICS

1000

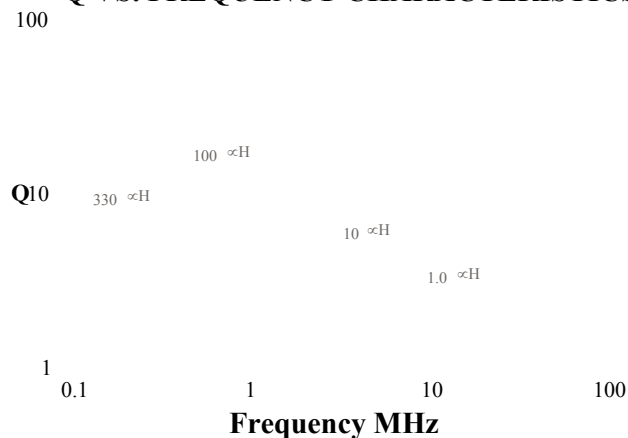
file:///G:/PUBLIC/Shares on Quartz/Clerical RW/New Product in .../CTX32T CTX32CT.ht 7/28/2004

They deliver twice the DC current carrying capability
with less than half the DC resistance as the CTX32
Series.

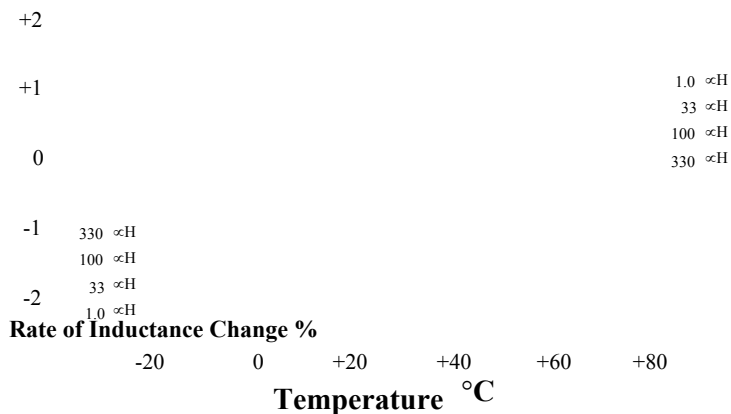
Coiltronics Part Number	Inductance $\mu\text{H/TOL}$	Q Min	Test MHz	SRF Min.MHz	R _{DC} Max.Ohms	I _{DC} Rated mA
CTX32CT-1R0	10.0+/-20%	10	7.96	100	.15	850
CTX32CT-1R5	1.5			80	.18	700
CTX32CT-2R2	2.2			68	.23	600
CTX32CT-3R3	3.3			54	.28	500
CTX32CT-4R7	4.7	15		46	.34	430
CTX32CT-6R8	6.8			38	.42	360
CTX32CT-100	10.0+/-10%		2.52	30	.50	300
CTX32CT-150	15.0			26	.74	250
CTX32CT-220	22.0			21	1.15	210
CTX32CT-330	33.0			17	1.65	170
CTX32CT-470	47.0			14	2.25	150
CTX32CT-680	68.0			12	3.70	120
CTX32CT-101	100.0		0.796	10	5.00	100
CTX32CT-151	150.0	20		8	8.00	85
CTX32CT-221	220.0			7	11.00	70
CTX32CT-331	330.0			6	16.00	60

Current ratings are achieved by reducing initial inductance values 10%

Q VS. FREQUENCY CHARACTERISTICS



TEMPERATURE CHARACTERISTICS



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