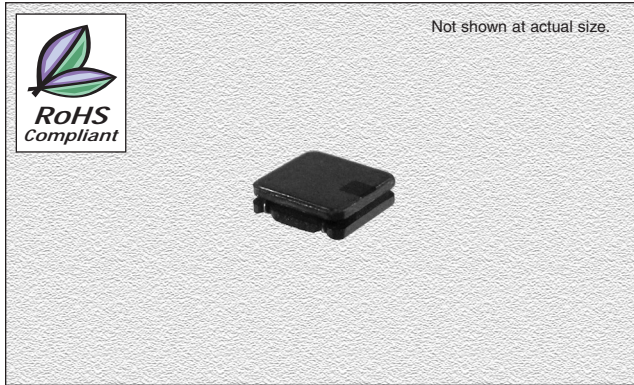


CTLQ1212NF Series

From 1.0 μH to 47 μH



SPECIFICATIONS

Part Numbers indicate tolerance available.
M = $\pm 20\%$, N = $\pm 30\%$

Part Number	Inductance (μH)	L Test Freq. (MHz)	DCR Typ. (Ω)	DCR Max. (Ω)	SRF Min. (MHz)	I _{rms} Typ. (A)	I _{sat} Typ. (A)
CTLQ1212NF-1R0N	1.0	1.0	0.065	0.078	180	1.700	1.950
CTLQ1212NF-1R5N	1.5	1.0	0.080	0.096	140	1.650	1.600
CTLQ1212NF-2R2M	2.2	1.0	0.095	0.114	100	1.450	1.450
CTLQ1212NF-3R3M	3.3	1.0	0.160	0.192	80	1.300	1.050
CTLQ1212NF-4R7M	4.7	1.0	0.190	0.228	60	1.100	0.950
CTLQ1212NF-6R8M	6.8	1.0	0.300	0.360	50	0.850	0.760
CTLQ1212NF-100M	10.0	1.0	0.450	0.540	45	0.720	0.610
CTLQ1212NF-150M	15.0	1.0	0.740	0.888	35	0.560	0.480
CTLQ1212NF-220M	22.0	1.0	0.980	1.176	25	0.500	0.420
CTLQ1212NF-330M	33.0	1.0	1.550	1.860	24	0.415	0.340
CTLQ1212NF-470M	47.0	1.0	2.000	2.400	19	0.320	0.270

PHYSICAL DIMENSIONS

Size	A	B	C Max.	D Typ.	E	F
mm	3.0 \pm 0.10	3.0 \pm 0.10	1.0	2.7	0.9 \pm 0.20	1.2 \pm 0.20
inches	0.11 \pm 0.004	0.11 \pm 0.004	0.04	0.11	0.035 \pm 0.008	0.05 \pm 0.008

CHARACTERISTICS

Description: SMD power inductor.

Applications: DC/DC converter, cell phones, HDD, DVC, DSC, PDA, LCD display, etc.

Operating Temperature: -40°C to +105°C

Inductance Tolerance: M = $\pm 20\%$, N = $\pm 30\%$

I_{rms}: Based on temperature rise 40°C typ.

I_{sat}: Based on $\Delta L/L_{0A}=30\%$ typ.

Packaging: Tape & Reel

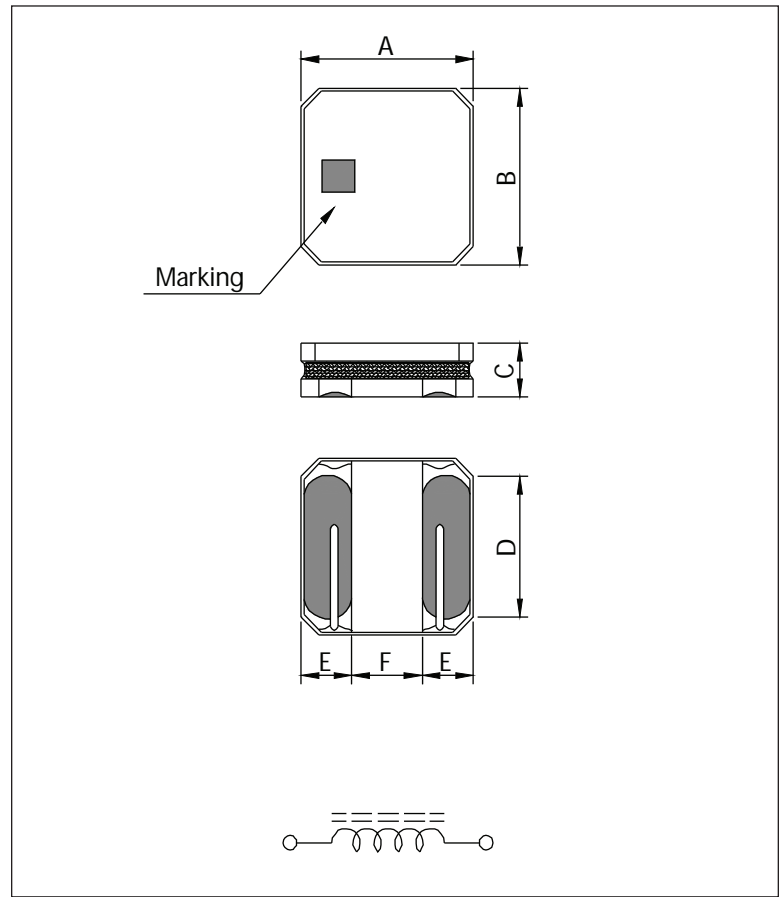
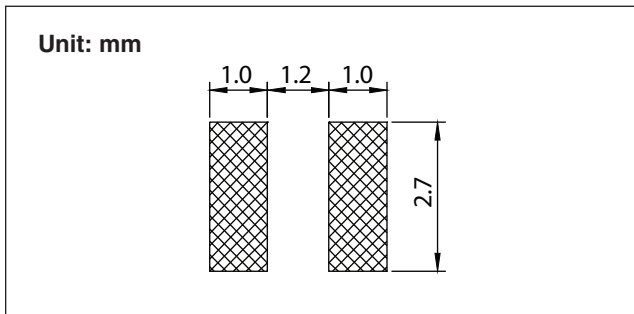
Testing: Tested on a HP4285A at 1MHz, 0.1V

Miscellaneous: RoHS Compliant.

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

PAD LAYOUT



09.14.09