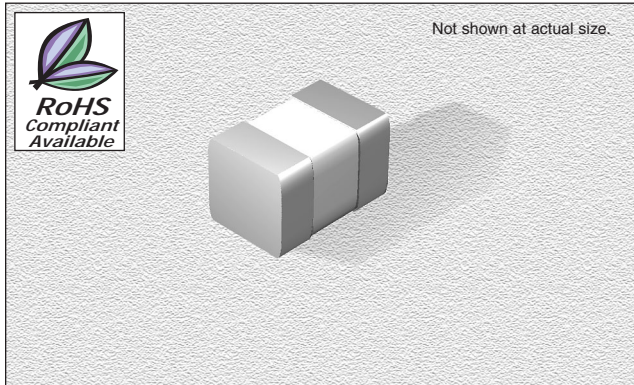


## CTLL2012 Series

### From 1.5 nH to 470 nH

#### ENGINEERING KIT #6



#### CHARACTERISTICS

**Description:** Ceramic core, multi-layer chip inductor for high frequency applications

**Applications:** Portable telephones, PMS, pages and miscellaneous high frequency circuits

**Operating Temperature:** -40°C to +100°C

**Inductance Tolerance:** ±0.3nH, ±5% & ±10%

**Testing:** Inductance and Q are tested on an HP4286A at specified frequency

**Packaging:** Tape & Reel

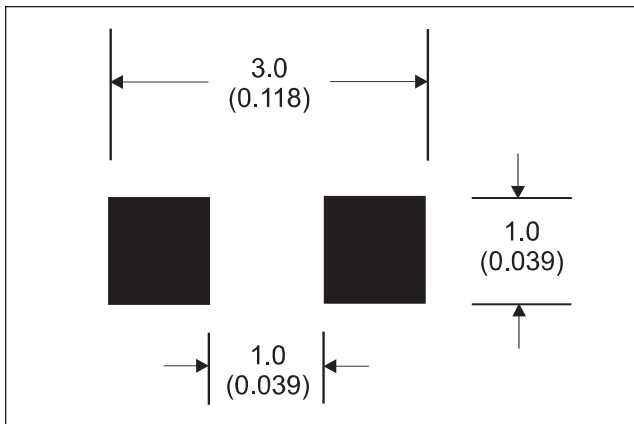
**Marking:** Reels marked with inductance code and tolerance

**Miscellaneous:** RoHS Compliant available. Other values available.

**Additional Information:** Additional electrical & physical information available upon request

**Samples available.** See website for ordering information.

#### PAD LAYOUT

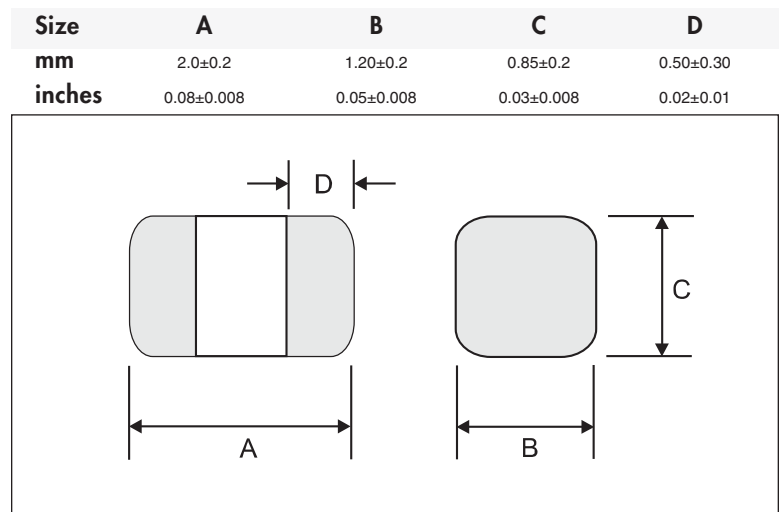


#### SPECIFICATIONS

Please specify tolerance code when ordering.  
 CTLL2012-3N3\_ ← S = ±0.3nH, J = ±5%, K = ±10%  
 \* S or K only \*\*J or K only  
 CTLL2012E Please specify "F" for RoHS Compliant

| Part Number      | Inductance (nH) | L Test Freq. (MHz) | Q Factor Min. | Q Test Freq. (MHz) | SRF Typ. (MHz) | DCR Max. (Ω) | Rated DC (mA) |
|------------------|-----------------|--------------------|---------------|--------------------|----------------|--------------|---------------|
| CTLL2012-1N5S    | 1.5             | 100                | 10            | 100                | >6000          | .10          | 300           |
| CTLL2012-1N8S    | 1.8             | 100                | 10            | 100                | >6000          | .10          | 300           |
| CTLL2012-2N2S    | 2.2             | 100                | 10            | 100                | >6000          | .10          | 300           |
| CTLL2012-2N7S    | 2.7             | 100                | 12            | 100                | >6000          | .12          | 300           |
| CTLL2012-3N3_*   | 3.3             | 100                | 12            | 100                | >6000          | .13          | 300           |
| CTLL2012-3N9_*   | 3.9             | 100                | 12            | 100                | 5600           | .15          | 300           |
| CTLL2012-4N7_*   | 4.7             | 100                | 12            | 100                | 5500           | .20          | 300           |
| CTLL2012-5N6_*   | 5.6             | 100                | 12            | 100                | 4700           | .23          | 300           |
| CTLL2012-6N8_**  | 6.8             | 100                | 15            | 100                | 3900           | .25          | 300           |
| CTLL2012-8N2_**  | 8.2             | 100                | 15            | 100                | 3200           | .28          | 300           |
| CTLL2012-10N_**  | 10              | 100                | 15            | 100                | 3100           | .30          | 300           |
| CTLL2012-12N_**  | 12              | 100                | 15            | 100                | 2800           | .35          | 300           |
| CTLL2012-15N_**  | 15              | 100                | 15            | 100                | 2400           | .40          | 300           |
| CTLL2012-18N_**  | 18              | 100                | 15            | 100                | 2100           | .45          | 300           |
| CTLL2012-22N_**  | 22              | 100                | 15            | 100                | 2000           | .50          | 300           |
| CTLL2012-27N_**  | 27              | 100                | 15            | 100                | 1800           | .55          | 300           |
| CTLL2012-33N_**  | 33              | 100                | 15            | 100                | 1700           | .60          | 300           |
| CTLL2012-39N_**  | 39              | 100                | 18            | 100                | 1400           | .65          | 300           |
| CTLL2012-47N_**  | 47              | 100                | 18            | 100                | 1200           | .70          | 300           |
| CTLL2012-56N_**  | 56              | 100                | 18            | 100                | 1000           | .75          | 300           |
| CTLL2012-68N_**  | 68              | 100                | 18            | 100                | 900            | .80          | 300           |
| CTLL2012-82N_**  | 82              | 100                | 18            | 100                | 900            | .85          | 300           |
| CTLL2012_-R10_** | 100             | 100                | 18            | 100                | 700            | .90          | 300           |
| CTLL2012_-R12_** | 120             | 50                 | 13            | 50                 | 600            | .95          | 300           |
| CTLL2012_-R15_** | 150             | 50                 | 13            | 50                 | 500            | 1.0          | 300           |
| CTLL2012_-R18_** | 180             | 50                 | 13            | 50                 | 430            | 1.1          | 300           |
| CTLL2012_-R22_** | 220             | 50                 | 12            | 50                 | 400            | 1.2          | 300           |
| CTLL2012_-R27_** | 270             | 50                 | 12            | 50                 | 340            | 1.3          | 300           |
| CTLL2012_-R33_** | 330             | 50                 | 12            | 50                 | 320            | 1.5          | 300           |
| CTLL2012_-R39_** | 390             | 50                 | 10            | 50                 | 270            | 1.6          | 300           |
| CTLL2012_-R47_** | 470             | 50                 | 10            | 50                 | 250            | 1.8          | 300           |

#### PHYSICAL DIMENSIONS



03.16.05