

## SMD Current Sense Transformer CT320 Series

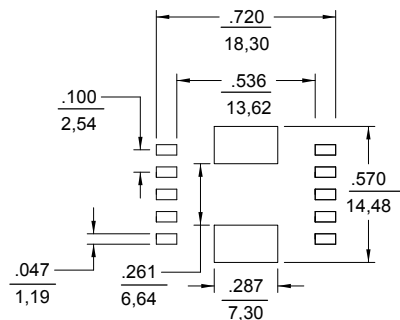
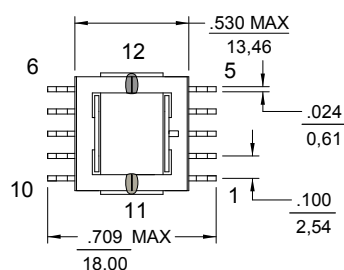


### Features

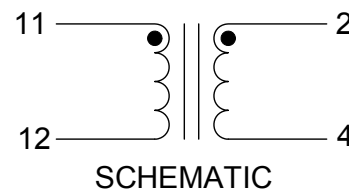
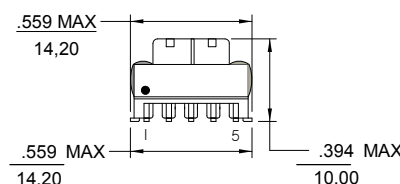
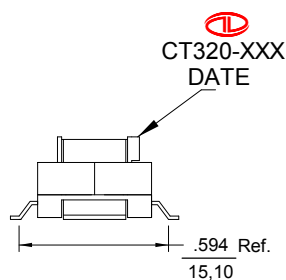
- Rated for 35 amps RMS Max.
- Operating Frequency: 50kHz to 500kHz
- Operating Temperature: -40°C to +130°C
- Pick and Place Design
- Tape and Reel Available
- Tinned Leads with Lead Solder is Available (note 6)

| Datatronics Part Number | Turns Ratio (± 2%) | Secondary Inductance (mH TYP) | Primary DCR (mΩ TYP) | Secondary DCR (Ω TYP) | HiPot (Vrms) |
|-------------------------|--------------------|-------------------------------|----------------------|-----------------------|--------------|
| CT320-020               | 1:20               | 0.30                          | 0.28                 | 1.40                  | 500          |
| CT320-030               | 1:30               | 0.66                          | 0.28                 | 2.10                  | 500          |
| CT320-040               | 1:40               | 1.20                          | 0.28                 | 2.80                  | 500          |
| CT320-050               | 1:50               | 2.00                          | 0.28                 | 3.50                  | 500          |
| CT320-060               | 1:60               | 3.00                          | 0.28                 | 4.20                  | 500          |
| CT320-070               | 1:70               | 3.90                          | 0.28                 | 4.90                  | 500          |
| CT320-100               | 1:100              | 7.50                          | 0.28                 | 7.00                  | 500          |
| CT320-125               | 1:125              | 12.00                         | 0.28                 | 8.75                  | 500          |
| CT320-200               | 1:200              | 29.00                         | 0.28                 | 14.00                 | 500          |

### Mechanical Specifications



SUGGESTED PAD LAYOUT



### Notes:

- 1.) All dimensions are in inches/mm  
Tolerance: ±0.010/0.25 unless otherwise specified
- 2.) Inductance tested at 10 kHz, 0.1Vrms
- 3.) Coplanarity: 0.004/0.102
- 4.) Packaging 600 pcs / carton
- 5.) Terminating resistor ( $R_T$ ) calculated:  
 $R_T = (N_{\text{TURNS}} / I_{\text{PRI}}) * V_{\text{REF}}$
- 6.) For Non-RoHS parts, replace CT prefix with -42 e.g. CT320 becomes 42-320
- 7.) Terminal finish compliant to RoHS requirements. Solder in accordance with J-STD-020D