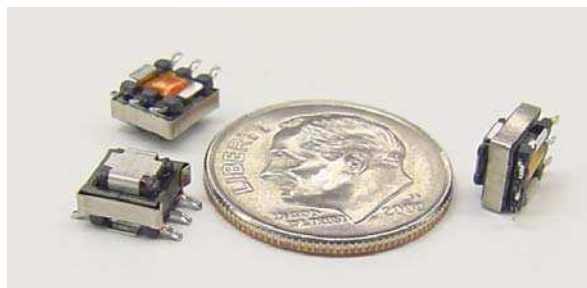


## SMD Current Sense Transformer CT323 Series

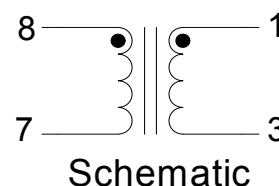
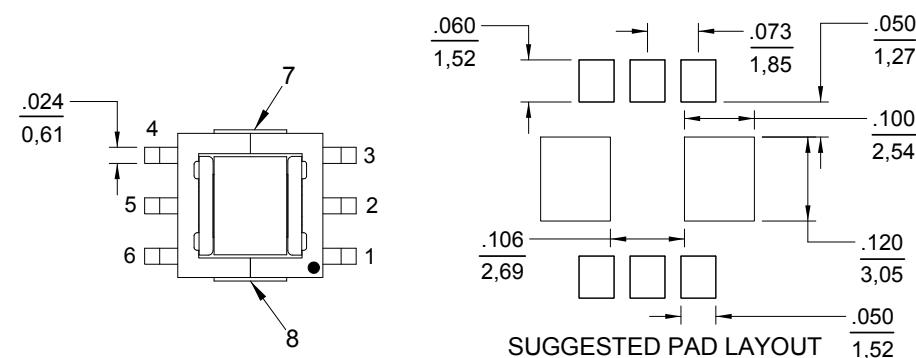


### Features

- Low Profile – Height: 4.1mm Max.
- Primary Rated for 20 Amps RMS Max. (note 8)
- Operating Frequency Range: 10kHz to 1MHz
- Temperature range -40°C to +130°C
- Electrical Specifications @ 25°C
- Tinned Leads with Lead Solder is Available (note 6)

| Datatronics Part Number | Turns Ratio (± 2%) | Inductance (1-3) $\mu$ H (TYP) | DCR (1-3) $\Omega$ (MAX) | Hipot Vrms |
|-------------------------|--------------------|--------------------------------|--------------------------|------------|
| CT323-020               | 1:20               | 100                            | 0.50                     | 500        |
| CT323-030               | 1:30               | 230                            | 0.75                     | 500        |
| CT323-040               | 1:40               | 440                            | 1.03                     | 500        |
| CT323-050               | 1:50               | 670                            | 1.61                     | 500        |
| CT323-060               | 1:60               | 1000                           | 1.98                     | 500        |
| CT323-070               | 1:70               | 1300                           | 2.97                     | 500        |
| CT323-100               | 1:100              | 2800                           | 5.36                     | 500        |
| CT323-125               | 1:125              | 4400                           | 6.67                     | 500        |
| CT323-200               | 1:200              | 12200                          | 33.24                    | 500        |

### Mechanical Outline:



### Notes:

- 1.) All dimensions are in inches/mm  
Tolerance:  $\pm 0.010/0,25$  unless otherwise specified
- 2.) Inductance tested at 10 kHz, 0.1Vrms
- 3.) Coplanarity: 0.004/0,102
- 4.) Tape and reel quantity, 1200 pcs/reel
- 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. CT323 becomes 42-323
- 7.) Terminal finish compliant to RoHS requirements.  
Solder in accordance with J-STD-020D
- 8.) Primary DCR (~4m $\Omega$ ) may cause higher voltage than typical for current sensing at high current and higher turns ratios.