

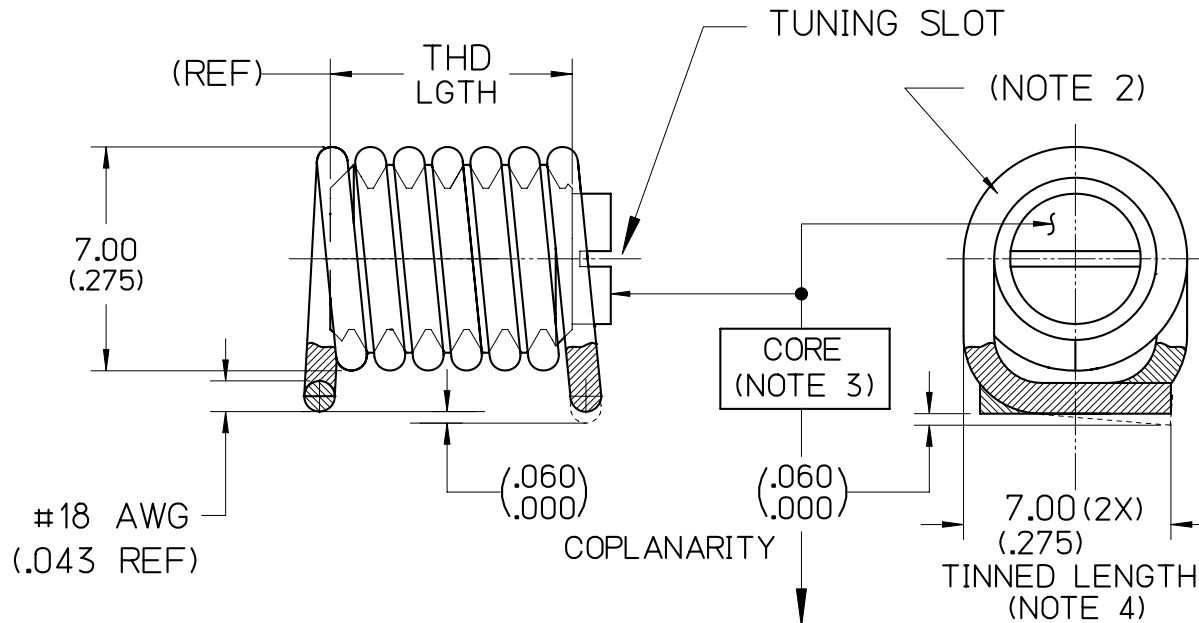
**VTCXXEYYYYTRSM**

**A**

**VARIABLE INDUCTOR COIL  
(NONMAGNETIC)**

*U.S. PATENT No. 8,248,198*

FILE: AIROUT



NOTES:

1. a. DIMENSIONS: mm  
b. DIMENSIONS: (inches) FOR REFERENCE
2. COIL :  
a. MATERIAL:  
COPPER ALLOY (COATED)  
b. COATING ABLE TO WITHSTAND 275°C FOR 100 HOURS AS PER NEMA "CLASS 200". (REF ASTM D2307)
3. CORE :  
a. MATERIAL:  
PTFE / COPPER ALLOY  
b. SELF-RESONANT FREQUENCY (SRF) IS MEASURED WITH THE CORE FULLY ENGAGED AS DEPICTED  
c. L MIN MEASURED WITH CORE ENGAGING FULL WINDINGS. L MAX MEASURED WITH CORE ENGAGING A SINGLE TURN.
4. TINNING :  
a. MATERIAL:  
RoHS COMPLIANT "SAC" ALLOY

| KNOWLES P/N   | L (nH) |     |     |         | Q<br>(@ 100 MHz) | SRF<br>(GHz) | TURNS | THD LGTH<br>mm (in) |
|---------------|--------|-----|-----|---------|------------------|--------------|-------|---------------------|
|               | MIN    | NOM | MAX | NO CORE |                  |              |       |                     |
| VTC02E030TRSM | 32     | 33  | 34  | 39      | 90               | 1.2          | 2     | 6(.236)             |
| VTC03E048TRSM | 46     | 49  | 52  | 59      | 95               | 1.0          | 3     | 6(.236)             |
| VTC03E055TRSM | 50     | 55  | 60  | 64      | 95               | 1.0          | 3     | 6(.236)             |
| VTC04E065TRSM | 60     | 64  | 68  | 78      | 101              | 0.9          | 4     | 6(.236)             |
| VTC05E088TRSM | 74     | 81  | 87  | 99      | 114              | 0.9          | 5     | 8(.315)             |
| VTC06E110TRSM | 94     | 107 | 119 | 123     | 119              | 0.7          | 6     | 8(.315)             |
| VTC07E130TRSM | 104    | 118 | 133 | 142     | 121              | 0.7          | 7     | 10(.394)            |

READINGS TAKEN ON AGILENT/8358-A METER.

|           |          |      |          |      |                           |
|-----------|----------|------|----------|------|---------------------------|
| A         | 11/06/17 | MAI  | -        | -    | 001457                    |
| LEVEL     | DATE     | DRN. | CHK.     | APP. | ECN                       |
| REVISIONS |          |      |          |      |                           |
| DRN.      | MAI      | CHK. | MAI      | APP. | MAI                       |
| DATE      | 11/06/17 | DATE | 11/07/17 | DATE | 11/07/17                  |
|           |          |      |          |      | SCALE<br>NONE             |
|           |          |      |          |      | .XX ± .762<br>.XXX ± .254 |



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