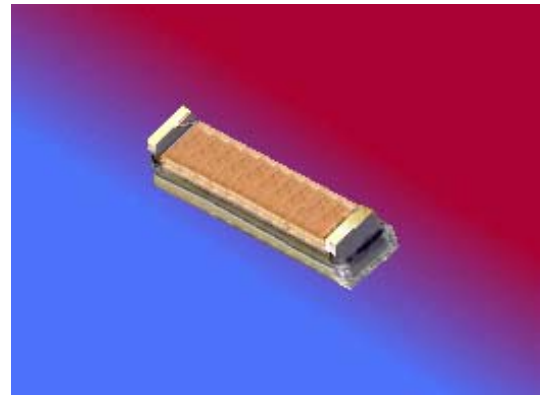


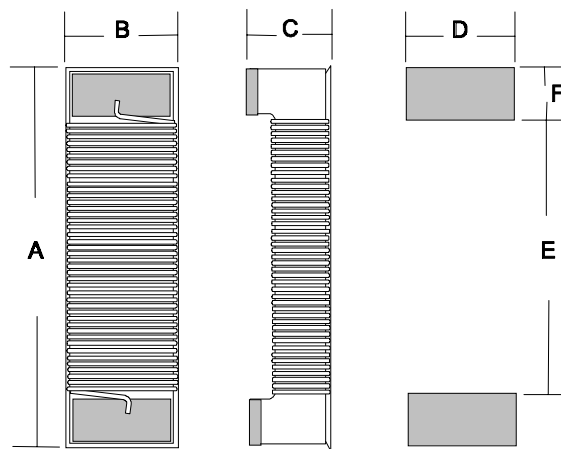
## SDTR Series

- High Shock Resistance
- Drop Tested 5 X4m + 200 X1.2m
- 125kHz Transponder Application
- LCP Resin Body
- Ferrite Core
- Temp. Range -40 to 85 °C
- Typical Reel Size 5000pcs



The SDTR series of surface mountable wound inductors is the very first of its type specifically designed for transponder applications in high shock and vibration environments.

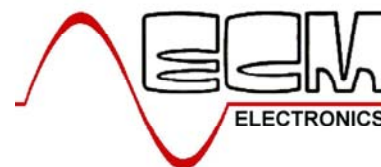
### COMPONENT OUTLINE



### DIMENSIONS (mm)

| ECM Type | Inductance Range | A    | B   | C   | D   | E   | F   |
|----------|------------------|------|-----|-----|-----|-----|-----|
| SDTR1103 | 290uH~16.2mH     | 11.0 | 2.9 | 2.5 | 3.2 | 9.3 | 1.0 |

# ECM Chip Transponder Inductors



| <b>ECM Part</b> | <b>L (mH)</b> | <b>Tol %</b> | <b>C (pF)</b> | <b>Q Min. (**kHz)</b> | <b>SRF Min. (kHz)</b> | <b>Reading Distance (cm)<sup>RD</sup></b> |
|-----------------|---------------|--------------|---------------|-----------------------|-----------------------|-------------------------------------------|
| SDTR1103T-291   | 0.29 @125 kHz | K            | 5600          | 20                    | 1000                  | 29                                        |
| SDTR1103T-341   | 0.34 @125 kHz | K            | 4700          | 20                    | 1000                  | 34                                        |
| SDTR1103T-411   | 0.41 @125 kHz | K            | 3900          | 20                    | 1000                  | 38                                        |
| SDTR1103T-491   | 0.49 @125 kHz | K            | 3300          | 20                    | 1000                  | 39                                        |
| SDTR1103T-601   | 0.60 @125 kHz | K            | 2700          | 20                    | 1000                  | 41                                        |
| SDTR1103T-731   | 0.73 @125 kHz | J            | 2200          | 20                    | 1000                  | 42                                        |
| SDTR1103T-901   | 0.90 @125 kHz | J            | 1800          | 20                    | 1000                  | 43                                        |
| SDTR1103T-102   | 1.08 @125 kHz | J            | 1500          | 20                    | 1000                  | 45                                        |
| SDTR1103T-162   | 1.62 @125 kHz | J            | 1000          | 20                    | 600                   | 52                                        |
| SDTR1103T-192   | 1.97 @125 kHz | J            | 820           | 20                    | 400                   | 59                                        |
| SDTR1103T-242   | 2.38 @125 kHz | J            | 680           | 22                    | 400                   | 65                                        |
| SDTR1103T-292   | 2.89 @125 kHz | J            | 560           | 25                    | 400                   | 68                                        |
| SDTR1103T-342   | 3.44 @125 kHz | J            | 470           | 25                    | 400                   | 71                                        |
| SDTR1103T-402   | 4.05 @125 kHz | J            | 400           | 25                    | 350                   | 74                                        |
| SDTR1103T-492   | 4.91 @125 kHz | J            | 330           | 25                    | 350                   | 75                                        |
| SDTR1103T-602   | 6.00 @125 kHz | J            | 270           | 25                    | 350                   | 75                                        |
| SDTR1103T-722   | 7.20 @125 kHz | J            | 225           | 25                    | 330                   | 70                                        |
| SDTR1103T-742   | 7.36 @125 kHz | J            | 220           | 25                    | 300                   | 63                                        |
| SDTR1103T-902   | 9.00 @125 kHz | J            | 180           | 22                    | 300                   | 61                                        |
| SDTR1103T-113   | 10.8 @125 kHz | J            | 150           | 20                    | 300                   | 54                                        |
| SDTR1103T-143   | 13.5 @125 kHz | J            | 120           | 20                    | 250                   | 47                                        |
| SDTR1103T-163   | 16.2 @125 kHz | J            | 100           | 20                    | 250                   | 45                                        |

**TOLERANCES J=5%; K= 10%.**

**\*\* = Operating and Test Frequency as specified in 'L' column**

**C = Capacitor for tuning circuits (125kHz) NB - the parallel input Cap. of the IC must also be taken into account**

**<sup>RD</sup> = 20mVp/p in a tuned circuit – Emitter Ø 194mm, L @ 734 µH, Vrms 73.3mV**