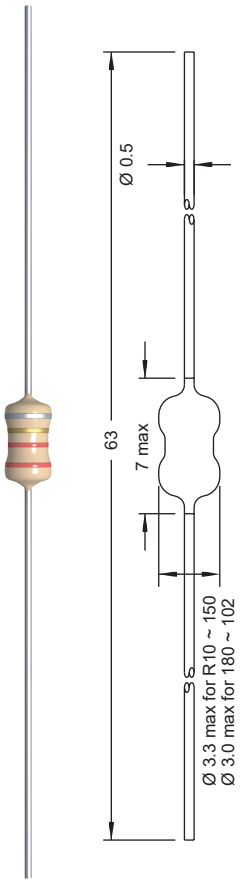
# MICC

RoHS Halogen Free

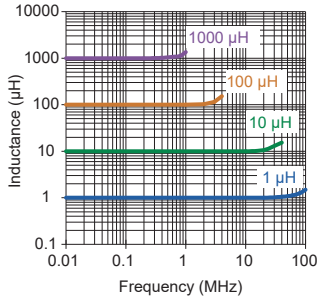
Mechanical Shock Vibration Proof

(Fixed Choke Coils)

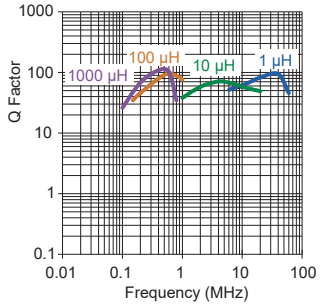
Leaded Inductors / Medical Applications



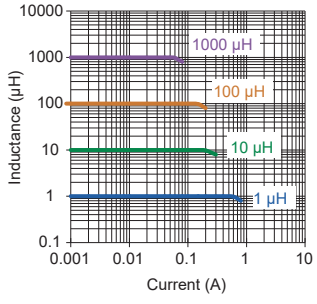

Typical Ls vs Frequency (*f*)




Typical Q vs Frequency (*f*)




Typical Ls vs Current (I)




Medical applications (non-magnetic)

| Part No | Inductance L (µH) | $f_L$ (MHz) | Tol ± (%) | Q min | $f_Q$ (MHz) | SRF min (MHz) | DCR max (Ω) | Rated DC Current (A) | Core Material |
|---|---|---|---|---|---|---|---|---|---|
| MICC-R10X-YY | 0.10 | 1 | 10,**20** | 35 | 25.2 | 600 | 0.11 | 1.10 | Phenolic |
| MICC-R11X-YY | 0.11 | 1 | 10,**20** | 35 | 25.2 | 570 | 0.12 | 1.10 | Phenolic |
| MICC-R12X-YY | 0.12 | 1 | 10,**20** | 35 | 25.2 | 570 | 0.12 | 1.08 | Phenolic |
| MICC-R15X-YY | 0.15 | 1 | 10,**20** | 35 | 25.2 | 500 | 0.13 | 1.02 | Phenolic |
| MICC-R18X-YY | 0.18 | 1 | 10,**20** | 35 | 25.2 | 460 | 0.14 | 1.00 | Phenolic |
| MICC-R20X-YY | 0.20 | 1 | 10,**20** | 35 | 25.2 | 420 | 0.16 | 0.99 | Phenolic |
| MICC-R22X-YY | 0.22 | 1 | 10,**20** | 35 | 25.2 | 420 | 0.16 | 0.99 | Phenolic |
| MICC-R27X-YY | 0.27 | 1 | 10,**20** | 35 | 25.2 | 380 | 0.17 | 0.91 | Phenolic |
| MICC-R33X-YY | 0.33 | 1 | 10,**20** | 35 | 25.2 | 330 | 0.20 | 0.83 | Phenolic |
| MICC-R39X-YY | 0.39 | 1 | 10,**20** | 35 | 25.2 | 300 | 0.22 | 0.79 | Phenolic |
| MICC-R47X-YY | 0.47 | 1 | 10,**20** | 35 | 25.2 | 280 | 0.25 | 0.75 | Phenolic |
| MICC-R56X-YY | 0.56 | 1 | 10,**20** | 35 | 25.2 | 260 | 0.28 | 0.70 | Phenolic |
| MICC-R68X-YY | 0.68 | 1 | 10,**20** | 35 | 25.2 | 240 | 0.48 | 0.53 | Phenolic |
| MICC-R82X-YY | 0.82 | 1 | 10,**20** | 35 | 25.2 | 230 | 0.55 | 0.50 | Phenolic |
| MICC-1R0X-YY | 1.0 | 1 | 5,**10**,20 | 35 | 25.2 | 180 | 0.25 | 0.63 | Ferrite |
| MICC-1R2X-YY | 1.2 | 1 | 5,**10**,20 | 40 | 7.96 | 170 | 0.25 | 0.61 | Ferrite |
| MICC-1R3X-YY | 1.3 | 1 | 5,**10**,20 | 40 | 7.96 | 170 | 0.25 | 0.61 | Ferrite |
| MICC-1R5X-YY | 1.5 | 1 | 5,**10**,20 | 40 | 7.96 | 150 | 0.30 | 0.57 | Ferrite |
| MICC-1R8X-YY | 1.8 | 1 | 5,**10**,20 | 40 | 7.96 | 130 | 0.30 | 0.54 | Ferrite |
| MICC-2R2X-YY | 2.2 | 1 | 5,**10**,20 | 40 | 7.96 | 120 | 0.35 | 0.52 | Ferrite |
| MICC-2R4X-YY | 2.4 | 1 | 5,**10**,20 | 40 | 7.96 | 110 | 0.40 | 0.48 | Ferrite |
| MICC-2R7X-YY | 2.7 | 1 | 5,**10**,20 | 40 | 7.96 | 110 | 0.40 | 0.48 | Ferrite |
| MICC-3R3X-YY | 3.3 | 1 | 5,**10**,20 | 40 | 7.96 | 110 | 0.50 | 0.42 | Ferrite |
| MICC-3R9X-YY | 3.9 | 1 | 5,**10**,20 | 40 | 7.96 | 100 | 0.55 | 0.40 | Ferrite |
| MICC-4R0X-YY | 4.0 | 1 | 5,**10**,20 | 40 | 7.96 | 90 | 0.65 | 0.38 | Ferrite |
| MICC-4R4X-YY | 4.4 | 1 | 5,**10**,20 | 40 | 7.96 | 90 | 0.65 | 0.38 | Ferrite |
| MICC-4R7X-YY | 4.7 | 1 | 5,**10**,20 | 40 | 7.96 | 90 | 0.65 | 0.38 | Ferrite |
| MICC-4R9X-YY | 4.9 | 1 | 5,**10**,20 | 40 | 7.96 | 90 | 0.65 | 0.38 | Ferrite |
| MICC-5R0X-YY | 5.0 | 1 | 5,**10**,20 | 45 | 7.96 | 75 | 1.30 | 0.26 | Ferrite |
| MICC-5R6X-YY | 5.6 | 1 | 5,**10**,20 | 45 | 7.96 | 75 | 1.30 | 0.26 | Ferrite |
| MICC-6R2X-YY | 6.2 | 1 | 5,**10**,20 | 45 | 7.96 | 70 | 1.45 | 0.25 | Ferrite |
| MICC-6R8X-YY | 6.8 | 1 | 5,**10**,20 | 45 | 7.96 | 70 | 1.45 | 0.25 | Ferrite |
| MICC-8R2X-YY | 8.2 | 1 | 5,**10**,20 | 50 | 7.96 | 65 | 1.60 | 0.24 | Ferrite |
| MICC-100X-YY | 10 | 1 | 5,**10**,20 | 50 | 7.96 | 60 | 1.70 | 0.23 | Ferrite |
| MICC-120X-YY | 12 | 0.02 | 5,**10**,20 | 50 | 2.52 | 50 | 2.40 | 0.19 | Ferrite |
| MICC-150X-YY | 15 | 0.02 | 5,**10**,20 | 50 | 2.52 | 45 | 2.70 | 0.185 | Ferrite |
| MICC-180X-YY | 18 | 0.02 | 5,**10**,20 | 60 | 2.52 | 14 | 0.81 | 0.350 | Ferrite |
| MICC-220X-YY | 22 | 0.02 | 5,**10**,20 | 60 | 2.52 | 12 | 0.90 | 0.335 | Ferrite |
| MICC-270X-YY | 27 | 0.02 | 5,**10**,20 | 60 | 2.52 | 11 | 1.00 | 0.315 | Ferrite |
| MICC-330X-YY | 33 | 0.02 | 5,**10**,20 | 60 | 2.52 | 10 | 1.12 | 0.300 | Ferrite |
| MICC-390X-YY | 39 | 0.02 | 5,**10**,20 | 60 | 2.52 | 8.5 | 1.21 | 0.285 | Ferrite |
| MICC-470X-YY | 47 | 0.02 | 5,**10**,20 | 60 | 2.52 | 7.7 | 2.40 | 0.200 | Ferrite |
| MICC-560X-YY | 56 | 0.02 | 5,**10**,20 | 60 | 2.52 | 6.8 | 2.60 | 0.195 | Ferrite |
| MICC-620X-YY | 62 | 0.02 | 5,**10**,20 | 60 | 2.52 | 5.7 | 2.90 | 0.185 | Ferrite |
| MICC-680X-YY | 68 | 0.02 | 5,**10**,20 | 60 | 2.52 | 5.7 | 2.90 | 0.185 | Ferrite |
| MICC-820X-YY | 82 | 0.02 | 5,**10**,20 | 60 | 2.52 | 5.5 | 3.20 | 0.175 | Ferrite |
| MICC-101X-YY | 100 | 0.02 | 5,**10**,20 | 60 | 2.52 | 5.3 | 3.50 | 0.170 | Ferrite |
| MICC-121X-YY | 120 | 0.02 | 5,**10**,20 | 60 | 0.79 | 5.0 | 3.80 | 0.160 | Ferrite |
| MICC-151X-YY | 150 | 0.02 | 5,**10**,20 | 60 | 0.79 | 4.6 | 4.30 | 0.150 | Ferrite |
| MICC-181X-YY | 180 | 0.02 | 5,**10**,20 | 60 | 0.79 | 4.2 | 5.30 | 0.135 | Ferrite |
| MICC-221X-YY | 220 | 0.02 | 5,**10**,20 | 60 | 0.79 | 3.8 | 5.80 | 0.130 | Ferrite |
| MICC-271X-YY | 270 | 0.02 | 5,**10**,20 | 60 | 0.79 | 3.2 | 7.80 | 0.115 | Ferrite |
| MICC-281X-YY | 280 | 0.02 | 5,**10**,20 | 60 | 0.79 | 3.2 | 7.80 | 0.115 | Ferrite |
| MICC-331X-YY | 330 | 0.02 | 5,**10**,20 | 60 | 0.79 | 3.0 | 8.70 | 0.105 | Ferrite |
| MICC-351X-YY | 350 | 0.02 | 5,**10**,20 | 60 | 0.79 | 2.7 | 8.70 | 0.105 | Ferrite |
| MICC-391X-YY | 390 | 0.02 | 5,**10**,20 | 60 | 0.79 | 2.7 | 11.0 | 0.095 | Ferrite |
| MICC-471X-YY | 470 | 0.02 | 5,**10**,20 | 60 | 0.79 | 2.3 | 12.0 | 0.090 | Ferrite |
| MICC-561X-YY | 560 | 0.02 | 5,**10**,20 | 60 | 0.79 | 2.2 | 16.5 | 0.075 | Ferrite |
| MICC-681X-YY | 680 | 0.02 | 5,**10**,20 | 60 | 0.79 | 2.0 | 22.0 | 0.065 | Ferrite |
| MICC-821X-YY | 820 | 0.02 | 5,**10**,20 | 60 | 0.79 | 1.8 | 25.0 | 0.060 | Ferrite |
| MICC-102X-YY | 1000 | 0.02 | 5,**10**,20 | 60 | 0.79 | 1.5 | 33.0 | 0.055 | Ferrite |

**SPQ:**

| Packaging Form | Taped / Reel | Taped / Ammo pack |
|---|---|---|
| **Axial** | 4000 [-01] | 1500 [-02] |
| **Radial** | 2000 [-31] | 3500 [-32] |

Revision date: 08 Feb 2021

**Remarks**: MICC-R10X to MICC-R82X are suitable for medical applications.

- Bold figure for **Tol%** is standard
- All dimensions in mm