

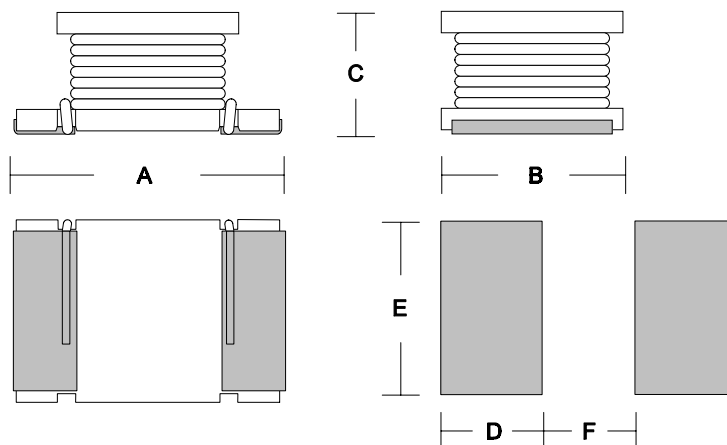
LNQ Series

- 2 Package Sizes
- High 'Q'
- Wide Inductance Range
- Low dcR
- Typical Reel Size 2000pcs



The **LNQ** series comes in two sizes approximate to EIA packages 1210, and 1812. Suitable applications include:- Pagers, Cordless Phones, Portable GPS, Remote Metering and Sensors where optimum battery performance is required.

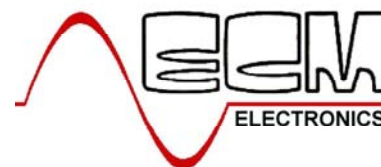
COMPONENT OUTLINE



DIMENSIONS

| ECM Type | Inductance Range | A (mm) | B | C | D | E | F |
|----------|------------------|--------|------|------|------|------|------|
| LNQ32T | 0.1uH~560uH | 3.20 | 2.50 | 2.00 | 1.50 | 2.00 | 1.00 |
| LNQ45T | 1.0uH~2.2mH | 4.50 | 3.20 | 2.60 | 2.00 | 3.00 | 1.20 |

ECM SMD Ferrite Chip Inductors



| ECM Part | L (μH) | Tol % | Q Min. @ MHz | SRF Min. (MHz) | R_{DC} MAX (Ω) | I_{DC} I_N (mA) |
|-----------------|----------------------------------|------------------|-------------------------|-------------------------------|---|--|
|-----------------|----------------------------------|------------------|-------------------------|-------------------------------|---|--|

LNQ32T Series (1210)

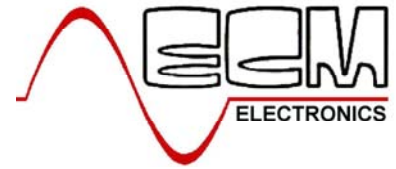
| | | | | | | |
|------------|-------------|-----|---------------|-----|------|-----|
| LNQ32T-R10 | 0.10 @ 1MHz | M | 20 @ 25.2MHz | 200 | 0.25 | 700 |
| LNQ32T-R18 | 0.18 @ 1MHz | M | 20 @ 25.2MHz | 200 | 0.25 | 650 |
| LNQ32T-R27 | 0.27 @ 1MHz | M | 25 @ 25.2MHz | 200 | 0.25 | 600 |
| LNQ32T-R39 | 0.39 @ 1MHz | M | 25 @ 25.2MHz | 200 | 0.25 | 530 |
| LNQ32T-R56 | 0.56 @ 1MHz | M | 30 @ 25.2MHz | 160 | 0.25 | 530 |
| LNQ32T-R68 | 0.68 @ 1MHz | M | 30 @ 25.2MHz | 160 | 0.25 | 470 |
| LNQ32T-R82 | 0.82 @ 1MHz | M | 30 @ 25.2MHz | 120 | 0.25 | 450 |
| LNQ32T-1R0 | 1.0 @ 1MHz | M | 20 @ 1MHz | 100 | 0.50 | 445 |
| LNQ32T-1R2 | 1.2 @ 1MHz | M | 20 @ 1MHz | 100 | 0.60 | 425 |
| LNQ32T-1R5 | 1.5 @ 1MHz | M,K | 20 @ 1MHz | 75 | 0.60 | 400 |
| LNQ32T-1R8 | 1.8 @ 1MHz | M,K | 20 @ 1MHz | 60 | 0.70 | 390 |
| LNQ32T-2R2 | 2.2 @ 1MHz | M,K | 20 @ 1MHz | 50 | 0.80 | 370 |
| LNQ32T-2R7 | 2.7 @ 1MHz | M,K | 20 @ 1MHz | 43 | 0.90 | 320 |
| LNQ32T-3R3 | 3.3 @ 1MHz | M,K | 20 @ 1MHz | 38 | 1.0 | 300 |
| LNQ32T-3R9 | 3.9 @ 1MHz | M,K | 20 @ 1MHz | 35 | 1.1 | 290 |
| LNQ32T-4R7 | 4.7 @ 1MHz | M,K | 20 @ 1MHz | 31 | 1.2 | 270 |
| LNQ32T-5R6 | 5.6 @ 1MHz | M,K | 20 @ 1MHz | 28 | 1.3 | 250 |
| LNQ32T-6R8 | 6.8 @ 1MHz | M,K | 20 @ 1MHz | 25 | 1.5 | 240 |
| LNQ32T-8R2 | 8.2 @ 1MHz | M,K | 20 @ 1MHz | 23 | 1.6 | 225 |
| LNQ32T-100 | 10 @ 1MHz | K,J | 35 @ 1MHz | 20 | 1.8 | 190 |
| LNQ32T-120 | 12 @ 1MHz | K,J | 35 @ 1MHz | 18 | 2.0 | 180 |
| LNQ32T-150 | 15 @ 1MHz | K,J | 35 @ 1MHz | 16 | 2.2 | 170 |
| LNQ32T-180 | 18 @ 1MHz | K,J | 35 @ 1MHz | 15 | 2.5 | 165 |
| LNQ32T-220 | 22 @ 1MHz | K,J | 35 @ 1MHz | 14 | 2.8 | 150 |
| LNQ32T-270 | 27 @ 1MHz | K,J | 35 @ 1MHz | 13 | 3.1 | 125 |
| LNQ32T-330 | 33 @ 1MHz | K,J | 40 @ 1MHz | 12 | 3.5 | 115 |
| LNQ32T-390 | 39 @ 1MHz | K,J | 40 @ 1MHz | 11 | 3.9 | 110 |
| LNQ32T-470 | 47 @ 1MHz | K,J | 40 @ 1MHz | 11 | 4.3 | 100 |
| LNQ32T-560 | 56 @ 1MHz | K,J | 40 @ 1MHz | 10 | 4.9 | 85 |
| LNQ32T-680 | 68 @ 1MHz | K,J | 40 @ 1MHz | 9 | 5.5 | 80 |
| LNQ32T-820 | 82 @ 1MHz | K,J | 40 @ 1MHz | 8 | 6.2 | 70 |
| LNQ32T-101 | 100 @ 1MHz | K,J | 40 @ 0.796MHz | 8 | 7.0 | 80 |
| LNQ32T-121 | 120 @ 1MHz | K,J | 40 @ 0.796MHz | 7 | 8.0 | 75 |
| LNQ32T-151 | 150 @ 1MHz | K,J | 40 @ 0.796MHz | 7 | 9.3 | 70 |
| LNQ32T-181 | 180 @ 1MHz | K,J | 40 @ 0.796MHz | 6 | 10.2 | 65 |

TOLERANCES J=5%, K=10%, M=20%.

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ECM SMD Ferrite Chip Inductors



| ECM Part | L (μH) | Tol % | Q Min. (**MHz) | SRF Min. (MHz) | R_{DC} MAX (Ω) | I_{DC} I_N (Ma) |
|-----------------|----------------------------------|------------------|---------------------------|-------------------------------|---|--|
|-----------------|----------------------------------|------------------|---------------------------|-------------------------------|---|--|

LNQ32T Series (1210) Continued...

| | | | | | | |
|------------|------------|-----|---------------|---|------|----|
| LNQ32T-221 | 220 @ 1MHz | K,J | 40 @ 0.796MHz | 6 | 11.8 | 65 |
| LNQ32T-271 | 270 @ 1MHz | K,J | 40 @ 0.796MHz | 5 | 12.5 | 65 |
| LNQ32T-331 | 330 @ 1MHz | K,J | 40 @ 0.796MHz | 5 | 13.0 | 65 |
| LNQ32T-391 | 390 @ 1MHz | K,J | 50 @ 0.796MHz | 5 | 22.0 | 50 |
| LNQ32T-471 | 470 @ 1kHz | K,J | 50 @ 0.796MHz | 5 | 25.0 | 45 |
| LNQ32T-561 | 560 @ 1kHz | K,J | 50 @ 0.796MHz | 5 | 28.0 | 40 |

LNQ45T Series (1812)

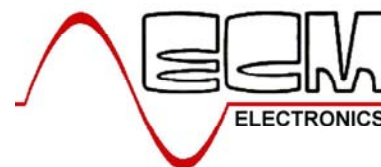
| | | | | | | |
|------------|------------|-----|---------------|-----|------|-----|
| LNQ45T-1R0 | 1.0 @ 1MHz | M | 20 @ 1MHz | 120 | 0.20 | 500 |
| LNQ45T-1R2 | 1.2 @ 1MHz | M | 20 @ 1MHz | 100 | 0.20 | 500 |
| LNQ45T-1R5 | 1.5 @ 1MHz | M | 20 @ 1MHz | 85 | 0.30 | 500 |
| LNQ45T-1R8 | 1.8 @ 1MHz | M | 20 @ 1MHz | 75 | 0.30 | 500 |
| LNQ45T-2R2 | 2.2 @ 1MHz | M | 20 @ 1MHz | 62 | 0.30 | 500 |
| LNQ45T-2R7 | 2.7 @ 1MHz | M | 20 @ 1MHz | 53 | 0.32 | 500 |
| LNQ45T-3R3 | 3.3 @ 1MHz | M | 20 @ 1MHz | 47 | 0.35 | 500 |
| LNQ45T-3R9 | 3.9 @ 1MHz | M | 20 @ 1MHz | 41 | 0.38 | 500 |
| LNQ45T-4R7 | 4.7 @ 1MHz | M,K | 30 @ 1MHz | 38 | 0.40 | 500 |
| LNQ45T-5R6 | 5.6 @ 1MHz | M,K | 30 @ 1MHz | 33 | 0.47 | 500 |
| LNQ45T-6R8 | 6.8 @ 1MHz | M,K | 30 @ 1MHz | 31 | 0.50 | 450 |
| LNQ45T-8R2 | 8.2 @ 1MHz | M,K | 30 @ 1MHz | 27 | 0.56 | 450 |
| LNQ45T-100 | 10 @ 1MHz | K,J | 35 @ 1MHz | 23 | 0.56 | 400 |
| LNQ45T-120 | 12 @ 1MHz | K,J | 35 @ 1MHz | 21 | 0.62 | 380 |
| LNQ45T-150 | 15 @ 1MHz | K,J | 35 @ 1MHz | 19 | 0.73 | 360 |
| LNQ45T-180 | 18 @ 1MHz | K,J | 35 @ 1MHz | 17 | 0.82 | 340 |
| LNQ45T-220 | 22 @ 1MHz | K,J | 35 @ 1MHz | 15 | 0.94 | 320 |
| LNQ45T-270 | 27 @ 1MHz | K,J | 35 @ 1MHz | 14 | 1.1 | 300 |
| LNQ45T-330 | 33 @ 1MHz | K,J | 35 @ 1MHz | 12 | 1.2 | 270 |
| LNQ45T-390 | 39 @ 1MHz | K,J | 35 @ 1MHz | 11 | 1.4 | 240 |
| LNQ45T-470 | 47 @ 1MHz | K,J | 35 @ 1MHz | 10 | 1.5 | 220 |
| LNQ45T-560 | 56 @ 1MHz | K,J | 35 @ 1MHz | 9 | 1.7 | 200 |
| LNQ45T-680 | 68 @ 1MHz | K,J | 35 @ 1MHz | 8 | 1.9 | 180 |
| LNQ45T-820 | 82 @ 1MHz | K,J | 35 @ 1MHz | 7 | 2.2 | 170 |
| LNQ45T-101 | 100 @ 1MHz | K,J | 40 @ 0.796MHz | 6 | 2.5 | 160 |
| LNQ45T-121 | 120 @ 1MHz | K,J | 40 @ 0.796MHz | 6 | 3.0 | 150 |

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ECM SMD Ferrite Chip Inductors



| ECM Part | L (μH) | Tol % | Q Min. (**MHz) | SRF Min. (MHz) | R_{DC} MAX (Ω) | I_{DC} I_N (mA) |
|-----------------|----------------------------------|------------------|---------------------------|-------------------------------|---|--|
|-----------------|----------------------------------|------------------|---------------------------|-------------------------------|---|--|

LNQ45T Series (1812) Continued...

| | | | | | | |
|------------|-------------|-----|---------------|---|------|-----|
| LNQ45T-151 | 150 @ 1MHz | K,J | 40 @ 0.796MHz | 5 | 3.7 | 130 |
| LNQ45T-181 | 180 @ 1MHz | K,J | 40 @ 0.796MHz | 5 | 4.5 | 120 |
| LNQ45T-221 | 220 @ 1MHz | K,J | 40 @ 0.796MHz | 4 | 5.4 | 110 |
| LNQ45T-271 | 270 @ 1MHz | K,J | 40 @ 0.796MHz | 4 | 6.8 | 100 |
| LNQ45T-331 | 330 @ 1MHz | K,J | 40 @ 0.796MHz | 3 | 8.2 | 95 |
| LNQ45T-391 | 390 @ 1MHz | K,J | 40 @ 0.796MHz | 3 | 9.7 | 90 |
| LNQ45T-471 | 470 @ 1kHz | K,J | 40 @ 0.796MHz | 3 | 11.8 | 80 |
| LNQ45T-561 | 560 @ 1kHz | K,J | 40 @ 0.796MHz | 2 | 14.5 | 70 |
| LNQ45T-681 | 680 @ 1kHz | K,J | 40 @ 0.796MHz | 2 | 17.0 | 65 |
| LNQ45T-821 | 820 @ 1kHz | K,J | 40 @ 0.796MHz | 2 | 20.5 | 60 |
| LNQ45T-102 | 1000 @ 1kHz | K,J | 40 @ 0.252MHz | 2 | 25.0 | 50 |
| LNQ45T-122 | 1200 @ 1kHz | K,J | 40 @ 0.252MHz | 2 | 30.0 | 45 |
| LNQ45T-152 | 1500 @ 1kHz | K,J | 40 @ 0.252MHz | 1 | 37.0 | 40 |
| LNQ45T-182 | 1800 @ 1kHz | K,J | 40 @ 0.252MHz | 1 | 45.0 | 35 |
| LNQ45T-222 | 2200 @ 1kHz | K,J | 40 @ 0.252MHz | 1 | 50.0 | 30 |

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