



Frontier Electronics Corp.

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RF Coated Chokes (Axial Leads)—1201 series

A. Electrical Specifications:

| Part Number | Inductance (uH) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR (OHM) Max. | Rated Current (mA) Max. |
|-------------|-----------------|--------|------------------|----------------|----------------|-------------------------|
| 1201-01M | 0.15 | 50 | 25.0 | 525 | 0.030 | 2740 |
| 1201-02M | 0.22 | 50 | 25.0 | 450 | 0.055 | 2020 |
| 1201-03M | 0.33 | 45 | 25.0 | 360 | 0.090 | 1580 |
| 1201-04M | 0.47 | 45 | 25.0 | 310 | 0.120 | 1370 |
| 1201-05K | 0.56 | 50 | 25.0 | 280 | 0.135 | 1290 |
| 1201-06K | 0.68 | 50 | 25.0 | 250 | 0.150 | 1220 |
| 1201-07K | 0.82 | 50 | 25.0 | 220 | 0.220 | 1020 |
| 1201-08K | 1.00 | 50 | 25.0 | 200 | 0.290 | 880 |
| 1201-09K | 1.20 | 33 | 7.90 | 180 | 0.420 | 730 |
| 1201-10K | 1.50 | 33 | 7.90 | 160 | 0.500 | 670 |
| 1201-11K | 1.80 | 33 | 7.90 | 150 | 0.650 | 590 |
| 1201-12K | 2.20 | 33 | 7.90 | 135 | 0.950 | 485 |
| 1201-13K | 2.70 | 33 | 7.90 | 120 | 1.200 | 430 |
| 1201-14K | 3.30 | 33 | 7.90 | 110 | 2.00 | 335 |
| 1201-15K | 3.90 | 33 | 7.90 | 100 | 2.30 | 310 |
| 1201-16K | 4.70 | 33 | 7.90 | 80 | 0.30 | 480 |
| 1201-17K | 5.60 | 45 | 7.90 | 60 | 0.32 | 565 |
| 1201-18K | 6.80 | 50 | 7.90 | 55 | 0.50 | 450 |
| 1201-19K | 8.20 | 50 | 7.90 | 50 | 0.60 | 410 |
| 1201-20K | 10 | 55 | 7.90 | 45 | 0.90 | 335 |
| 1201-21K | 12 | 65 | 2.50 | 42 | 1.10 | 305 |
| 1201-22K | 15 | 65 | 2.50 | 40 | 1.40 | 271 |
| 1201-23K | 18 | 75 | 2.50 | 34 | 2.25 | 213 |
| 1201-24K | 22 | 75 | 2.50 | 30 | 2.50 | 202 |
| 1201-25K | 24 | 60 | 2.50 | 26 | 2.50 | 202 |
| 1201-26K | 27 | 60 | 2.50 | 25 | 2.60 | 198 |
| 1201-28K | 30 | 65 | 2.50 | 21 | 2.80 | 191 |
| 1201-29K | 33 | 65 | 2.50 | 19 | 3.00 | 185 |
| 1201-31J | 36 | 60 | 2.50 | 15.50 | 2.50 | 202 |
| 1201-32J | 39 | 60 | 2.50 | 14.50 | 2.60 | 198 |
| 1201-33J | 43 | 60 | 2.50 | 13.70 | 2.70 | 194 |
| 1201-34J | 47 | 55 | 2.50 | 13.00 | 2.75 | 193 |
| 1201-35J | 51 | 55 | 2.50 | 12.70 | 2.85 | 189 |
| 1201-36J | 56 | 55 | 2.50 | 12.00 | 3.00 | 184 |
| 1201-37J | 62 | 55 | 2.50 | 11.50 | 3.15 | 180 |
| 1201-38J | 68 | 55 | 2.50 | 11.00 | 3.30 | 176 |
| 1201-39J | 75 | 55 | 2.50 | 10.50 | 3.70 | 166 |
| 1201-40J | 82 | 50 | 2.50 | 10.30 | 3.90 | 162 |
| 1201-41J | 91 | 50 | 2.50 | 10.00 | 4.30 | 154 |
| 1201-42J | 100 | 50 | 2.50 | 9.50 | 4.50 | 151 |
| 1201-43J | 110 | 60 | 0.79 | 8.90 | 4.90 | 144 |
| 1201-44J | 120 | 65 | 0.79 | 8.70 | 5.20 | 140 |
| 1201-45J | 130 | 65 | 0.79 | 8.50 | 5.45 | 137 |
| 1201-46J | 150 | 65 | 0.79 | 8.00 | 6.05 | 130 |
| 1201-47J | 160 | 65 | 0.79 | 7.50 | 6.40 | 126 |
| 1201-48J | 180 | 65 | 0.79 | 8.00 | 6.05 | 130 |
| 1201-49J | 200 | 65 | 0.79 | 6.50 | 7.10 | 123 |
| 1201-50J | 220 | 65 | 0.79 | 6.20 | 7.45 | 117 |
| 1201-51J | 240 | 65 | 0.79 | 5.90 | 7.80 | 115 |
| 1201-52J | 270 | 65 | 0.79 | 5.70 | 11.00 | 143 |
| 1201-53J | 300 | 65 | 0.79 | 5.40 | 11.50 | 140 |
| 1201-54J | 330 | 65 | 0.79 | 5.10 | 12.00 | 136 |
| 1201-55J | 360 | 65 | 0.79 | 4.80 | 12.50 | 134 |
| 1201-56J | 390 | 65 | 0.79 | 4.50 | 16.30 | 117 |
| 1201-57J | 430 | 65 | 0.79 | 4.20 | 17.10 | 115 |
| 1201-58J | 470 | 65 | 0.79 | 3.90 | 17.90 | 112 |
| 1201-59J | 510 | 65 | 0.79 | 3.70 | 18.80 | 109 |
| 1201-60J | 560 | 65 | 0.79 | 3.80 | 19.50 | 107 |
| 1201-61J | 620 | 65 | 0.79 | 3.30 | 25.90 | 93 |
| 1201-62J | 680 | 65 | 0.79 | 3.10 | 27.20 | 91 |
| 1201-63J | 750 | 65 | 0.79 | 2.90 | 28.60 | 88 |
| 1201-64J | 820 | 65 | 0.79 | 2.70 | 30.00 | 86 |
| 1201-65J | 910 | 65 | 0.79 | 2.50 | 31.50 | 84 |
| 1201-66J | 1000 | 65 | 0.79 | 2.30 | 33.00 | 82 |

Note: **RoHS** compliant; for the **ROHS** parts, we add "**-LFR**" at the end of the P/N.

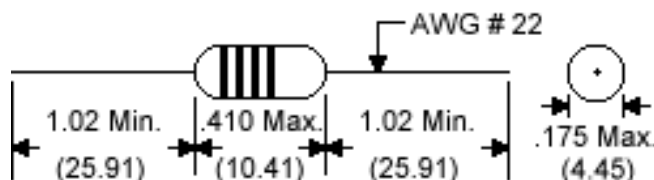


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RF Coated Chokes (Axial Leads)—1201 series

B. Mechanical Dimensions:



Mechanical drawing

C. General Information:

1. Coil Form Material: Phenolic or Ferrite.
2. Body Size: 10.4 x 4.45 mm.
3. Inductance (Current) ranges: 0.15uH (2.74A) - 1000uH (82mA)
4. Inductance Tolerance: M: $\pm 20\%$, K: $\pm 10\%$, J: $\pm 5\%$.
5. DCR: from 0.03 to 33.0 Ohms.
6. Other information:

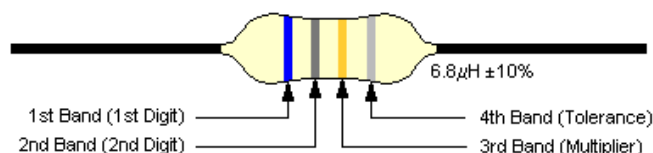
| Spec. / Series | 1201 to 1211 Series |
|--------------------------|--|
| Operating Temperature: | - 20°C to + 80°C |
| Temp. Rise: | 20°C |
| Ambient Temperature: | 90°C Max. |
| Terminal Strength: | 3 lb. |
| Marking: | Color Code in accordance with EIA |
| Moisture & Heat Resist.: | $\Delta L/L \leq \pm 5\%$ $\Delta Q/Q \leq \pm 10\%$ |
| Dielectric Strength: | 1KV rms. |
| Test Equipment: | L & Q = HP4342A at specified frequency DCR = Milli-Ohm meter, SRF = HP4191A |

7. Color Code for RF Coated Chokes:

| Color | Black | Brown | Red | Orange | Yellow | Green | Blue | Violet | Gray | White | Gold | Silver | None |
|------------|-------|-------|-----|--------|--------|-------|------|--------|------|-------|------|--------|------|
| Digit | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | -- | -- | -- |
| Multiplier | 1 | 10 | 100 | 1000 | 10,000 | -- | -- | -- | -- | -- | 0.1 | 0.01 | -- |
| Tolerance | -- | -- | -- | 3% | -- | -- | -- | -- | -- | -- | 5% | 10% | 20% |

Example for color code on Molded Inductor:

| Inductance (μH) | 1st Band | 2nd Band | 3rd Band | 4th Band |
|------------------------|----------|----------|----------|----------|
| $0.68 \pm 10\%$ | Blue | Gray | Silver | Silver |
| $6.8 \pm 10\%$ | Blue | Gray | Gold | Silver |
| $68 \pm 10\%$ | Blue | Gray | Black | Silver |



Color Code

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