

# Shielded RF Chokes

## Special Features

- Ferrite magnetic shielded for low radiation
- High Q, high reliability
- Epoxy end-fill to protect coil from extreme environment
- Consistent body diameter
- Dielectric strength 500Vrms
- Operating temperature: -55 to +105°C
- Color banded per MIL STD

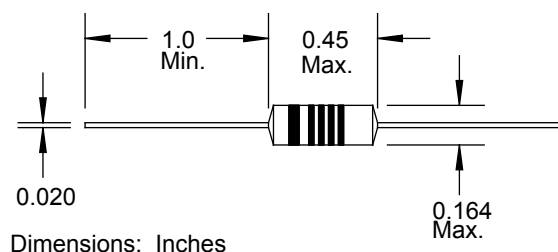
## Typical Applications

- Telecommunications
- Signal processing
- High reliability, low magnetic coupling and densely packed board design

## Notes

\* Rated current to cause 35°C temperature rise

\*\* Incremental current to cause 5% inductance



| 8250 Series |                |           |                     |                      |                  |                |                    |
|-------------|----------------|-----------|---------------------|----------------------|------------------|----------------|--------------------|
| Part Number | L (μH)<br>±10% | Q<br>Min. | Test Freq.<br>(MHz) | SRF<br>(MHz)<br>Min. | DCR<br>Ω<br>Max. | I, DC*<br>(mA) | I, Incr.**<br>(mA) |
| 8250-R10K   | 0.10           | 50        | 25.0                | 400                  | 0.026            | 3000           | 3000               |
| 8250-R12K   | 0.12           | 50        | 25.0                | 400                  | 0.029            | 2860           | 2860               |
| 8250-R15K   | 0.15           | 50        | 25.0                | 400                  | 0.034            | 2600           | 2600               |
| 8250-R18K   | 0.18           | 50        | 25.0                | 400                  | 0.044            | 2300           | 2300               |
| 8250-R22K   | 0.22           | 50        | 25.0                | 400                  | 0.056            | 2050           | 2050               |
| 8250-R27K   | 0.27           | 50        | 25.0                | 400                  | 0.09             | 1625           | 1625               |
| 8250-R33K   | 0.33           | 47        | 25.0                | 325                  | 0.122            | 1400           | 1400               |
| 8250-R39K   | 0.39           | 47        | 25.0                | 390                  | 0.161            | 1220           | 1220               |
| 8250-R47K   | 0.47           | 47        | 25.0                | 264                  | 0.218            | 1060           | 1060               |
| 8250-R56K   | 0.56           | 45        | 25.0                | 249                  | 0.29             | 900            | 900                |
| 8250-R68K   | 0.68           | 43        | 25.0                | 221                  | 0.382            | 790            | 790                |
| 8250-R82K   | 0.82           | 41        | 25.0                | 200                  | 0.45             | 725            | 725                |
| 8250-1R0K   | 1.0            | 42        | 25.0                | 156                  | 0.054            | 2080           | 2080               |
| 8250-1R2K   | 1.2            | 43        | 7.9                 | 144                  | 0.07             | 1840           | 1840               |
| 8250-1R5K   | 1.5            | 41        | 7.9                 | 128                  | 0.096            | 1560           | 1560               |
| 8250-1R8K   | 1.8            | 42        | 7.9                 | 121                  | 0.107            | 1480           | 1480               |
| 8250-2R2K   | 2.2            | 42        | 7.9                 | 108                  | 0.142            | 1290           | 1290               |
| 8250-2R7K   | 2.7            | 41        | 7.9                 | 96                   | 0.184            | 1130           | 1130               |
| 8250-3R3K   | 3.3            | 41        | 7.9                 | 88                   | 0.26             | 950            | 950                |
| 8250-3R9K   | 3.9            | 41        | 7.9                 | 84                   | 0.354            | 815            | 815                |
| 8250-4R7K   | 4.7            | 42        | 7.9                 | 72                   | 0.168            | 710            | 710                |
| 8250-5R6K   | 5.6            | 42        | 7.9                 | 69                   | 0.511            | 680            | 680                |
| 8250-6R8K   | 6.8            | 42        | 7.9                 | 62                   | 0.75             | 560            | 560                |
| 8250-8R2K   | 8.2            | 46        | 7.9                 | 58                   | 0.828            | 535            | 535                |
| 8250-100K   | 10             | 46        | 7.9                 | 53                   | 1.27             | 532            | 532                |
| 8250-120K   | 12             | 50        | 2.5                 | 47                   | 1.76             | 368            | 368                |
| 8250-150K   | 15             | 50        | 2.5                 | 41                   | 2.3              | 325            | 325                |
| 8250-180K   | 18             | 50        | 2.5                 | 43                   | 0.677            | 596            | 235                |
| 8250-220K   | 22             | 50        | 2.5                 | 38                   | 0.742            | 565            | 220                |
| 8250-270K   | 27             | 50        | 2.5                 | 36                   | 0.85             | 526            | 200                |
| 8250-330K   | 33             | 50        | 2.5                 | 33                   | 0.928            | 505            | 190                |
| 8250-390K   | 39             | 50        | 2.5                 | 29.4                 | 1.28             | 429            | 180                |
| 8250-470K   | 47             | 55        | 2.5                 | 26.5                 | 1.48             | 400            | 175                |
| 8250-560K   | 56             | 55        | 2.5                 | 25                   | 1.64             | 380            | 160                |
| 8250-680K   | 68             | 55        | 2.5                 | 23                   | 2.2              | 328            | 150                |
| 8250-820K   | 82             | 55        | 2.5                 | 14                   | 1.96             | 349            | 140                |
| 8250-101K   | 100            | 65        | 2.5                 | 12                   | 2.28             | 322            | 120                |
| 8250-121K   | 120            | 65        | 0.79                | 11.2                 | 2.45             | 311            | 95                 |
| 8250-151K   | 150            | 65        | 0.79                | 10.5                 | 2.79             | 294            | 90                 |
| 8250-181K   | 180            | 65        | 0.79                | 10                   | 3.08             | 277            | 85                 |
| 8250-221K   | 220            | 65        | 0.79                | 9.4                  | 3.48             | 251            | 80                 |
| 8250-271K   | 270            | 65        | 0.79                | 8                    | 4.55             | 231            | 70                 |
| 8250-331K   | 330            | 65        | 0.79                | 7.3                  | 5.1              | 215            | 65                 |
| 8250-391K   | 390            | 65        | 0.79                | 6.9                  | 5.62             | 205            | 60                 |
| 8250-471K   | 470            | 70        | 0.79                | 6.5                  | 6.45             | 192            | 58                 |
| 8250-561K   | 560            | 70        | 0.79                | 6                    | 8.0              | 174            | 55                 |
| 8250-681K   | 680            | 75        | 0.79                | 5.6                  | 8.85             | 163            | 50                 |
| 8250-821K   | 820            | 70        | 0.79                | 4.8                  | 10.4             | 151            | 45                 |

Also available as RoHS compliant.

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