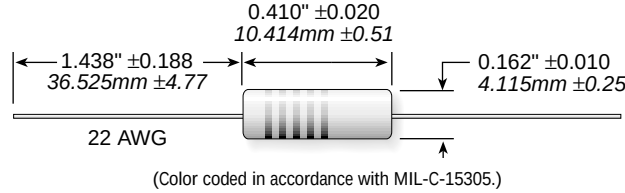


**This product has been  
DISCONTINUED**

# Q Series

R. F. Shielded Chokes



| Series | Inductance          | Style | Grade/<br>Class | Max.<br>oper.<br>temp. | Max.<br>temp.<br>rise | Ambient<br>temp. | Dielectric<br>withstanding voltage<br>(sea level) | Dielectric<br>(reduced pressure) | Terminal<br>pull | Altitude   | Coupling<br>max. | Weight          |
|--------|---------------------|-------|-----------------|------------------------|-----------------------|------------------|---------------------------------------------------|----------------------------------|------------------|------------|------------------|-----------------|
| Q      | 0.10–10,000 $\mu$ H | LT10  | 1/A             | 105°C                  | 15°C                  | 90°C             | 1000VRMS                                          | 200VRMS                          | 5 lbs.           | 70,000 ft. | 3%               | 0.750 g or less |

## STOCK PART NUMBERS

| Part number    | MS part designation | Inductance ( $\mu$ H) $\pm 10\%$ | Q min. | Test frequency (L & Q, MHz) | SRF min. (MHz) | DCR max. ( $\Omega$ ) | Rated DC current (mA) | Part number    | MS part designation | Inductance ( $\mu$ H) $\pm 10\%$ | Q min. | Test frequency (L & Q, MHz) | SRF min. (MHz) | DCR max. ( $\Omega$ ) | Rated DC current (mA) | Part number    | MS part designation | Inductance ( $\mu$ H) $\pm 10\%$ | Q min. | Test frequency (L & Q, MHz) | SRF min. (MHz) | DCR max. ( $\Omega$ ) | Rated DC current (mA) |
|----------------|---------------------|----------------------------------|--------|-----------------------------|----------------|-----------------------|-----------------------|----------------|---------------------|----------------------------------|--------|-----------------------------|----------------|-----------------------|-----------------------|----------------|---------------------|----------------------------------|--------|-----------------------------|----------------|-----------------------|-----------------------|
| <b>MS75087</b> |                     |                                  |        |                             |                |                       |                       | <b>MS75088</b> |                     |                                  |        |                             |                |                       |                       | <b>MS75089</b> |                     |                                  |        |                             |                |                       |                       |
| QS100K         | -1                  | 0.10                             | 50     | 25                          | 250            | 0.025                 | 1790                  | QS471K         | -9                  | 4.70                             | 44     | 7.9                         | 70             | 0.55                  | 380                   | QS223K         | -15                 | 220.0                            | 55     | 0.79                        | 7.5            | 5.00                  | 125                   |
| QS120K         | -2                  | 0.12                             | 51     | 25                          | 250            | 0.034                 | 1530                  | QS561K         | -10                 | 5.60                             | 44     | 7.9                         | 65             | 0.72                  | 335                   | QS273K         | -16                 | 270.0                            | 55     | 0.79                        | 7.0            | 5.80                  | 115                   |
| QS150K         | -3                  | 0.15                             | 51     | 25                          | 250            | 0.037                 | 1470                  | QS681K         | -11                 | 6.80                             | 50     | 7.9                         | 55             | 1.02                  | 280                   | QS333K         | -17                 | 330.0                            | 55     | 0.79                        | 6.5            | 6.40                  | 110                   |
| QS180K         | -4                  | 0.18                             | 50     | 25                          | 250            | 0.047                 | 1300                  | QS821K         | -12                 | 8.20                             | 50     | 7.9                         | 50             | 1.32                  | 250                   | QS393K         | -18                 | 390.0                            | 60     | 0.79                        | 6.2            | 7.40                  | 105                   |
| QS220K         | -5                  | 0.22                             | 49     | 25                          | 250            | 0.067                 | 1100                  | QS102K         | -13                 | 10.0                             | 50     | 7.9                         | 46             | 1.62                  | 220                   | QS473K         | -19                 | 470.0                            | 60     | 0.79                        | 5.7            | 9.50                  | 92                    |
| QS270K         | -6                  | 0.27                             | 47     | 25                          | 250            | 0.11                  | 855                   | QS122K         | -14                 | 12.0                             | 55     | 2.5                         | 44             | 2.00                  | 200                   | QS563K         | -20                 | 560.0                            | 60     | 0.79                        | 4.7            | 10.5                  | 90                    |
| QS330K         | -7                  | 0.33                             | 46     | 25                          | 250            | 0.13                  | 780                   | <b>MS75089</b> |                     |                                  |        |                             |                |                       |                       | QS683K         | -21                 | 680.0                            | 60     | 0.79                        | 4.5            | 11.8                  | 80                    |
| QS390K         | -8                  | 0.39                             | 44     | 25                          | 250            | 0.18                  | 670                   | QS152K         | -1                  | 15.0                             | 45     | 2.5                         | 49             | 0.80                  | 315                   | QS823K         | -22                 | 820.0                            | 60     | 0.79                        | 4.2            | 13.0                  | 80                    |
| QS470K         | -9                  | 0.47                             | 44     | 25                          | 235            | 0.25                  | 565                   | QS182K         | -2                  | 18.0                             | 45     | 2.5                         | 45             | 0.89                  | 300                   | QS104K         | -23                 | 1000                             | 60     | 0.79                        | 3.8            | 17.5                  | 70                    |
| QS560K         | -10                 | 0.56                             | 43     | 25                          | 210            | 0.33                  | 490                   | QS222K         | -3                  | 22.0                             | 45     | 2.5                         | 41             | 0.96                  | 290                   | QS124K         | -24                 | 1200                             | 45     | 0.25                        | 1.5            | 22.1                  | 60                    |
| QS680K         | -11                 | 0.68                             | 42     | 25                          | 190            | 0.45                  | 420                   | QS272K         | -4                  | 27.0                             | 45     | 2.5                         | 38             | 1.19                  | 260                   | QS154K         | -25                 | 1500                             | 45     | 0.25                        | 1.2            | 26.5                  | 55                    |
| QS820K         | -12                 | 0.82                             | 40     | 25                          | 180            | 0.59                  | 370                   | QS332K         | -5                  | 33.0                             | 45     | 2.5                         | 34             | 1.37                  | 240                   | QS184K         | -26                 | 1800                             | 45     | 0.25                        | 1.0            | 29.9                  | 50                    |
| <b>MS75088</b> |                     |                                  |        |                             |                |                       |                       | QS392K         | -6                  | 39.0                             | 50     | 2.5                         | 29             | 1.93                  | 205                   | QS224K         | -27                 | 2200                             | 45     | 0.25                        | 0.97           | 33.8                  | 50                    |
| QS101K         | -1                  | 1.00                             | 44     | 25                          | 140            | 0.07                  | 1070                  | QS472K         | -7                  | 47.0                             | 50     | 2.5                         | 27             | 2.11                  | 195                   | QS274K         | -28                 | 2700                             | 45     | 0.25                        | 0.92           | 47.3                  | 40                    |
| QS121K         | -2                  | 1.20                             | 44     | 7.9                         | 130            | 0.10                  | 895                   | QS562K         | -8                  | 56.0                             | 50     | 2.5                         | 25             | 2.23                  | 190                   | QS334K         | -29                 | 3300                             | 45     | 0.25                        | 0.84           | 53.0                  | 40                    |
| QS151K         | -3                  | 1.50                             | 44     | 7.9                         | 115            | 0.12                  | 815                   | QS682K         | -9                  | 68.0                             | 50     | 2.5                         | 21             | 2.70                  | 170                   | QS394K         | -30                 | 3900                             | 45     | 0.25                        | 0.80           | 73.8                  | 35                    |
| QS181K         | -4                  | 1.80                             | 44     | 7.9                         | 105            | 0.14                  | 775                   | QS822K         | -10                 | 82.0                             | 50     | 2.5                         | 10.5           | 2.44                  | 180                   | QS474K         | -31                 | 4700                             | 45     | 0.25                        | 0.74           | 81.6                  | 31                    |
| QS221K         | -5                  | 2.20                             | 44     | 7.9                         | 100            | 0.19                  | 650                   | QS103K         | -11                 | 100.0                            | 50     | 2.5                         | 10.0           | 3.12                  | 160                   | QS564K         | -32                 | 5600                             | 44     | 0.25                        | 0.73           | 98.9                  | 28                    |
| QS271K         | -6                  | 2.70                             | 44     | 7.9                         | 92             | 0.28                  | 535                   | QS123K         | -12                 | 120.0                            | 55     | 0.79                        | 9.7            | 3.60                  | 150                   | QS684K         | -33                 | 6800                             | 40     | 0.25                        | 0.66           | 111.0                 | 27                    |
| QS331K         | -7                  | 3.30                             | 44     | 7.9                         | 85             | 0.35                  | 480                   | QS153K         | -13                 | 150.0                            | 55     | 0.79                        | 8.5            | 4.10                  | 140                   | QS824K         | -34                 | 8200                             | 40     | 0.25                        | 0.54           | 119.0                 | 26                    |
| QS391K         | -8                  | 3.90                             | 44     | 7.9                         | 75             | 0.40                  | 450                   | QS183K         | -14                 | 180.0                            | 55     | 0.79                        | 8.0            | 4.40                  | 135                   | QS105K         | -35                 | 10000                            | 40     | 0.25                        | 0.47           | 137.0                 | 24                    |