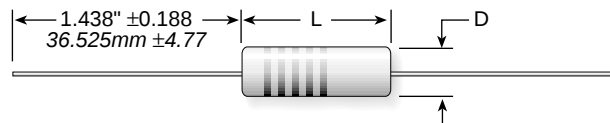


# K, R, S, V & X Series

## R. F. Molded Chokes

This product has been  
**DISCONTINUED**



(Color coded in accordance with MIL-C-15305.)

| Series      | Construction | 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) (reduced pressure) |         | Terminal<br>pull  | Altitude         | Series            | Dimensions (in. / mm)<br>Length      Diameter |                   | AWG |
|-------------|--------------|------------------------|-------|-----------------|------------------------|-----------------------|------------------|----------------------------------------------------------------------|---------|-------------------|------------------|-------------------|-----------------------------------------------|-------------------|-----|
| K           | Phenolic     | 0.15–4.7 $\mu$ H       | LT4   | 1/B             | 125°C                  | 35°C                  | 90°C             | 1000VRMS                                                             | 200VRMS | 5 lbs.            | 70,000 ft.       | K                 | 0.375 $\pm$ 0.010                             | 0.156 $\pm$ 0.010 | 22  |
|             | Powd. iron   | 0.56–1000 $\mu$ H      | LT10  | 1/A             | 105°C                  | 15°C                  | "                | "                                                                    | "       | 9.525 $\pm$ 0.25  | 3.962 $\pm$ 0.25 |                   |                                               |                   |     |
| R           | Phenolic     | 0.15–2.7 $\mu$ H       | LT4   | 1/B             | 125°C                  | 35°C                  | 90°C             | 1000VRMS                                                             | 200VRMS | 5 lbs.            | 70,000 ft.       | R                 | 0.438 $\pm$ 0.010                             | 0.188 $\pm$ 0.010 | 22  |
|             | Powd. iron   | 3.3–27 $\mu$ H         | LT10  | 1/A             | 105°C                  | 15°C                  | "                | "                                                                    | "       | 11.125 $\pm$ 0.25 | 4.775 $\pm$ 0.25 |                   |                                               |                   |     |
| S, V<br>& X |              | 270–<br>10,000 $\mu$ H | LT10  | 1/A             | 105°C                  | 15°C                  | 90°C             | 700VRMS                                                              | 180VRMS | 5 lbs.            | 70,000 ft.       | S                 | 0.440 $\pm$ 0.010                             | 0.190 $\pm$ 0.010 | 22  |
|             |              |                        |       |                 |                        |                       |                  |                                                                      |         |                   |                  |                   | 4.917 $\pm$ 0.25                              | 4.826 $\pm$ 0.25  |     |
|             |              |                        |       |                 |                        |                       |                  |                                                                      |         |                   |                  | V                 | 0.560 $\pm$ 0.010                             | 0.215 $\pm$ 0.010 | 22  |
|             |              |                        |       |                 |                        |                       |                  |                                                                      |         |                   |                  | 14.224 $\pm$ 0.25 | 5.461 $\pm$ 0.25                              |                   |     |
|             |              |                        |       |                 |                        |                       |                  |                                                                      |         |                   |                  | X                 | 0.740 $\pm$ 0.010                             | 0.240 $\pm$ 0.010 | 20  |
|             |              |                        |       |                 |                        |                       |                  |                                                                      |         |                   |                  | 18.796 $\pm$ 0.25 | 6.096 $\pm$ 0.25                              |                   |     |

### STOCK PART NUMBERS

| Part number                                                           | MS part designation* | Inductance* (μH) | Q min. | Test frequency (L & Q, MHz) | SRF min. (MHz) | DCR max. (Ω) | Rated DC current (mA) | Part number | MS part designation* | Inductance* (μH) | Q min. | Test frequency (L & Q, MHz) | SRF min. (MHz) | DCR max. (Ω) | Rated DC current (mA) | Part number | MS part designation* | Inductance* (μH) | Q min. | Test frequency (L & Q, MHz) | SRF min. (MHz) | DCR max. (Ω) | Rated DC current (mA) |
|-----------------------------------------------------------------------|----------------------|------------------|--------|-----------------------------|----------------|--------------|-----------------------|-------------|----------------------|------------------|--------|-----------------------------|----------------|--------------|-----------------------|-------------|----------------------|------------------|--------|-----------------------------|----------------|--------------|-----------------------|
| 18130                                                                 |                      |                  |        |                             |                |              |                       | 90538       |                      |                  |        |                             |                |              |                       | MS75101     |                      |                  |        |                             |                |              |                       |
| KM150M                                                                | -1                   | 0.15             | 50     | 25                          | 525            | 0.03         | 2450                  | KM103J      | 12                   | 100.0            | 50     | 2.5                         | 9.5            | 4.50         | 133                   | RM122K      | -8                   | 12.00            | 50     | 2.5                         | 36             | 1.05         | 370                   |
| KM220M                                                                | -2                   | 0.22             | 50     | 25                          | 450            | 0.055        | 1900                  | KM113J      | -13                  | 110.0            | 60     | 0.79                        | 8.9            | 4.90         | 128                   | RM152K      | -9                   | 15.00            | 55     | 2.5                         | 30             | 1.20         | 310                   |
| KM330M                                                                | -3                   | 0.33             | 45     | 25                          | 360            | 0.09         | 1400                  | KM123J      | -14                  | 120.0            | 65     | 0.79                        | 8.7            | 5.20         | 124                   | RM182K      | -10                  | 18.00            | 60     | 2.5                         | 30             | 1.95         | 255                   |
| KM470M                                                                | 4                    | 0.47             | 45     | 25                          | 310            | 0.12         | 1225                  | KM133J      | -15                  | 130.0            | 65     | 0.79                        | 8.5            | 5.45         | 121                   | RM222K      | -11                  | 22.00            | 60     | 2.5                         | 24             | 2.20         | 240                   |
| KM560K                                                                | 5                    | 0.56             | 50     | 25                          | 280            | 0.135        | 1220                  | KM153J      | -16                  | 150.0            | 65     | 0.79                        | 8.0            | 6.05         | 114                   | RM272K      | -12                  | 27.00            | 65     | 2.5                         | 22             | 2.75         | 205                   |
| KM680K                                                                | 6                    | 0.68             | 50     | 25                          | 250            | 0.15         | 1100                  | KM163J      | 17                   | 160.0            | 65     | 0.79                        | 7.5            | 6.40         | 111                   | MS90539     |                      |                  |        |                             |                |              |                       |
| KM820K                                                                | -7                   | 0.82             | 50     | 25                          | 220            | 0.22         | 900                   | KM183J      | -18                  | 180.0            | 65     | 0.79                        | 7.0            | 6.75         | 108                   | SM273J      | -1                   | 270              | 65     | 0.79                        | 5.6            | 8.2          | 110                   |
| KM101K                                                                | -8                   | 1.00             | 50     | 25                          | 200            | 0.29         | 830                   | KM203J      | -19                  | 200.0            | 65     | 0.79                        | 6.5            | 7.10         | 106                   | SM303J      | -2                   | 300              | 65     | 0.79                        | 5.3            | 8.7          | 107                   |
| KM121K                                                                | -9                   | 1.20             | 33     | 7.9                         | 180            | 0.42         | 650                   | KM223J      | 20                   | 220.0            | 65     | 0.79                        | 6.2            | 7.45         | 103                   | SM333J      | -3                   | 330              | 65     | 0.79                        | 5.0            | 9.1          | 105                   |
| KM151K                                                                | -10                  | 1.50             | 33     | 7.9                         | 160            | 0.50         | 600                   | KM243J      | -21                  | 240.0            | 65     | 0.79                        | 5.9            | 7.80         | 101                   | SM363J      | -4                   | 360              | 65     | 0.79                        | 4.7            | 9.6          | 102                   |
| KM181K                                                                | -11                  | 1.80             | 33     | 7.9                         | 150            | 0.65         | 525                   | KM273J      | 270.0                | 65               | 0.79   | 5.7                         | 11.0           | 85           | SM393J                | -5          | 390                  | 65               | 0.79   | 4.5                         | 10.0           | 100          |                       |
| KM221K                                                                | -12                  | 2.20             | 33     | 7.9                         | 135            | 0.95         | 435                   | KM303J      | 300.0                | 65               | 0.79   | 5.4                         | 11.5           | 83           | SM433J                | -6          | 430                  | 65               | 0.79   | 4.3                         | 10.6           | 97           |                       |
| KM271K                                                                | -13                  | 2.70             | 33     | 7.9                         | 120            | 1.20         | 385                   | KM333J      | 330.0                | 65               | 0.79   | 5.1                         | 12.0           | 81           | SM473J                | -7          | 470                  | 65               | 0.79   | 4.0                         | 11.1           | 95           |                       |
| KM331K                                                                | -14                  | 3.30             | 33     | 7.9                         | 110            | 2.00         | 300                   | KM363J      | 360.0                | 65               | 0.79   | 4.8                         | 12.5           | 80           | SM513J                | -8          | 510                  | 65               | 0.79   | 3.8                         | 11.6           | 93           |                       |
| KM391K                                                                | -15                  | 3.90             | 33     | 7.9                         | 100            | 2.30         | 280                   | KM393J      | 390.0                | 65               | 0.79   | 4.5                         | 16.3           | 70           | SM563J                | 9           | 560                  | 65               | 0.79   | 3.6                         | 12.3           | 91           |                       |
| KM471K                                                                | -16                  | 4.70             | 33     | 7.9                         | 90             | 2.60         | 260                   | KM433J      | 430.0                | 65               | 0.79   | 4.2                         | 17.1           | 68           | SM623J                | -10         | 620                  | 60               | 0.79   | 3.5                         | 13.0           | 88           |                       |
| 14046                                                                 |                      |                  |        |                             |                |              |                       | KM473J      | 470.0                | 65               | 0.79   | 3.9                         | 17.9           | 67           | SM683J                | -11         | 680                  | 60               | 0.79   | 3.4                         | 13.7           | 85           |                       |
| KM561K                                                                | -1                   | 5.60             | 45     | 7.9                         | 60             | 0.32         | 495                   | KM513J      | 510.0                | 65               | 0.79   | 3.8                         | 18.8           | 65           | SM753J                | -12         | 750                  | 60               | 0.79   | 3.3                         | 14.4           | 83           |                       |
| KM681K                                                                | -2                   | 6.80             | 50     | 7.9                         | 55             | 0.50         | 395                   | KM563J      | 560.0                | 65               | 0.79   | 3.7                         | 19.5           | 64           | SM823J                | -13         | 820                  | 60               | 0.79   | 3.1                         | 15.1           | 81           |                       |
| KM821K                                                                | -3                   | 8.20             | 50     | 7.9                         | 50             | 0.60         | 360                   | KM623J      | 620.0                | 65               | 0.79   | 3.3                         | 25.9           | 55           | SM913J                | -14         | 910                  | 60               | 0.79   | 2.9                         | 15.8           | 79           |                       |
| KM102K                                                                | -4                   | 10.00            | 55     | 7.9                         | 45             | 0.90         | 290                   | KM683J      | 680.0                | 65               | 0.79   | 3.1                         | 27.2           | 54           | SM104J                | -15         | 1000                 | 60               | 0.79   | 2.8                         | 16.5           | 78           |                       |
| KM122K                                                                | -5                   | 12.00            | 65     | 2.5                         | 42             | 1.10         | 265                   | KM753J      | 750.0                | 65               | 0.79   | 2.9                         | 28.6           | 53           | MS90540               |             |                      |                  |        |                             |                |              |                       |
| KM152K                                                                | -6                   | 15.00            | 65     | 2.5                         | 40             | 1.40         | 240                   | KM823J      | 820.0                | 65               | 0.79   | 2.7                         | 30.0           | 52           | VM114J                | -1          | 1100                 | 60               | 0.25   | 2.8                         | 21.0           | 78           |                       |
| KM182K                                                                | -7                   | 18.00            | 75     | 2.5                         | 34             | 2.25         | 185                   | KM913J      | 910.0                | 65               | 0.79   | 2.5                         | 31.5           | 50           | VM124J                | -2          | 1200                 | 60               | 0.25   | 2.7                         | 22.0           | 76           |                       |
| KM222K                                                                | -8                   | 22.00            | 75     | 2.5                         | 30             | 2.50         | 175                   | KM104J      | 1000.0               | 65               | 0.79   | 2.3                         | 33.0           | 49           | VM134J                | -3          | 1300                 | 60               | 0.25   | 2.6                         | 23.0           | 75           |                       |
| KM272K                                                                | -9                   | 27.00            | 60     | 2.5                         | 25             | 2.60         | 170                   | MS75008     |                      |                  |        |                             |                |              |                       | VM154J      | -4                   | 1500             | 65     | 0.25                        | 2.4            | 25.0         | 72                    |
| KM332K                                                                | -10                  | 33.00            | 65     | 2.5                         | 19             | 3.00         | 165                   | RM150M      | 21                   | 0.15             | 55     | 25.0                        | 510            | 0.030        | 3000                  | VM164J      | -5                   | 1600             | 65     | 0.25                        | 2.3            | 26.0         | 70                    |
| 90538                                                                 |                      |                  |        |                             |                |              |                       | RM220M      | 22                   | 0.22             | 50     | 25.0                        | 415            | 0.035        | 2800                  | VM184J      | -6                   | 1800             | 65     | 0.25                        | 2.2            | 28.0         | 68                    |
| KM362J                                                                | -1                   | 36.00            | 60     | 2.5                         | 15.5           | 2.50         | 180                   | RM330M      | 23                   | 0.33             | 50     | 25.0                        | 350            | 0.065        | 2000                  | VM204J      | -7                   | 2000             | 65     | 0.25                        | 2.1            | 29.0         | 67                    |
| KM392J                                                                | -2                   | 39.00            | 60     | 2.5                         | 14.5           | 2.60         | 176                   | RM470M      | 24                   | 0.47             | 50     | 25.0                        | 300            | 0.085        | 1700                  | VM224J      | -8                   | 2200             | 70     | 0.25                        | 2.0            | 30.0         | 66                    |
| KM432J                                                                | -3                   | 43.00            | 60     | 2.5                         | 13.7           | 2.70         | 172                   | RM560K      | 25                   | 0.56             | 50     | 25.0                        | 270            | 0.125        | 1450                  | VM244J      | -9                   | 2400             | 70     | 0.25                        | 1.9            | 31.0         | 64                    |
| KM472J                                                                | -4                   | 47.00            | 55     | 2.5                         | 13.0           | 2.75         | 170                   | RM680K      | 26                   | 0.68             | 45     | 25.0                        | 250            | 0.150        | 1300                  | VM274J      | -10                  | 2700             | 70     | 0.25                        | 1.8            | 33.0         | 62                    |
| KM512J                                                                | -5                   | 51.00            | 55     | 2.5                         | 12.7           | 2.85         | 167                   | RM820K      | 27                   | 0.82             | 40     | 25.0                        | 210            | 0.205        | 1100                  | VM304J      | -11                  | 3000             | 70     | 0.25                        | 1.7            | 35.0         | 61                    |
| KM562J                                                                | -6                   | 56.00            | 55     | 2.5                         | 12.0           | 3.00         | 164                   | RM101K      | 28                   | 1.00             | 40     | 25.0                        | 200            | 0.290        | 930                   | VM334J      | -12                  | 3300             | 70     | 0.25                        | 1.6            | 38.0         | 58                    |
| KM622J                                                                | -7                   | 62.00            | 55     | 2.5                         | 11.5           | 3.15         | 160                   | RM121K      | 29                   | 1.20             | 30     | 7.9                         | 180            | 0.400        | 785                   | VM364J      | -13                  | 3600             | 70     | 0.25                        | 1.5            | 40.0         | 57                    |
| KM682J                                                                | -8                   | 68.00            | 55     | 2.5                         | 11.0           | 3.30         | 156                   | RM151K      | 30                   | 1.50             | 30     | 7.9                         | 170            | 0.485        | 700                   | MS90541     |                      |                  |        |                             |                |              |                       |
| KM752J                                                                | -9                   | 75.00            | 55     | 2.5                         | 10.5           | 3.70         | 147                   | RM181K      | -31                  | 1.80             | 30     | 7.9                         | 150            | 0.740        | 580                   | XM394J      | -1                   | 3900             | 80     | 0.25                        | 1.45           | 44.0         | 61                    |
| KM822J                                                                | -10                  | 82.00            | 50     | 2.5                         | 10.3           | 3.90         | 143                   | RM221K      | -32                  | 2.20             | 30     | 7.9                         | 140            | 0.970        | 505                   | XM434J      | -2                   | 4300             | 80     | 0.25                        | 1.40           | 46.0         | 59                    |
| KM912J                                                                | -11                  | 91.00            | 50     | 2.5                         | 10.0           | 4.3          | 136                   | RM271K      | 33                   | 2.70             | 30     | 7.9                         | 120            | 1.20         | 460                   | XM474J      | -3                   | 4700             | 80     | 0.25                        | 1.35           | 48.0         | 58                    |
|                                                                       |                      |                  |        |                             |                |              |                       | MS75101     |                      |                  |        |                             |                |              |                       | XM504J      | -4                   | 5000             | 80     | 0.25                        | 1.30           | 50.0         | 57                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM331K      | 1                    | 3.30             | 30     | 7.9                         | 70             | 0.140        | 990                   | XM564J      | -5                   | 5600             | 80     | 0.25                        | 1.25           | 53.0         | 56                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM391K      | 2                    | 3.90             | 30     | 7.9                         | 65             | 0.155        | 870                   | XM624J      | -6                   | 6200             | 80     | 0.25                        | 1.20           | 56.0         | 54                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM471K      | 3                    | 4.70             | 30     | 7.9                         | 60             | 0.210        | 745                   | XM684J      | -7                   | 6800             | 80     | 0.25                        | 1.15           | 59.0         | 52                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM561K      | 4                    | 5.60             | 30     | 7.9                         | 50             | 0.280        | 645                   | XM754J      | -8                   | 7500             | 80     | 0.25                        | 1.10           | 62.0         | 51                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM681K      | 5                    | 6.80             | 30     | 7.9                         | 50             | 0.375        | 560                   | XM824J      | -9                   | 8200             | 80     | 0.25                        | 1.05           | 65.0         | 50                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM821K      | 6                    | 8.20             | 30     | 7.9                         | 48             | 0.440        | 540                   | XM914J      | -10                  | 9100             | 80     | 0.25                        | 1.00           | 68.0         | 49                    |
|                                                                       |                      |                  |        |                             |                |              |                       | RM102K      | 7                    | 10.00            | 30     | 7.9                         | 42             | 0.605        | 440                   | XM105J      | -11                  | 10000            | 80     | 0.25                        | 0.95           | 72.0         | 47                    |
| * For example, the MS designation for KM150M is 18130-1               |                      |                  |        |                             |                |              |                       |             |                      |                  |        |                             |                |              |                       |             |                      |                  |        |                             |                |              |                       |
| ** Letter suffix on part number denotes tolerance: J=5%, K=10%, M=20% |                      |                  |        |                             |                |              |                       |             |                      |                  |        |                             |                |              |                       |             |                      |                  |        |                             |                |              |                       |

\* For example, the MS designation for KM150M is 18130-1

\*\* Letter suffix on part number denotes tolerance: J=5%, K=10%, M=20%