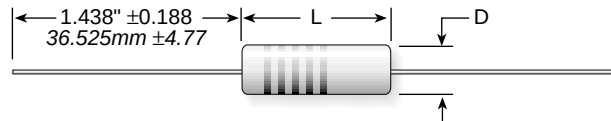


# K, R, S, V & X Series

## R. F. Molded Chokes



(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 µH       | LT4   | 1/B             | 125°C                  | 35°C                  | 90°C             | 1000VRMS                                                             | 200VRMS | 5 lbs.           | 70,000 ft. | K      | 0.375 ± 0.010                                 | 0.156 ± 0.010 | 22  |
|             | Powd. iron   | 0.56–1000 µH      | LT10  | 1/A             | 105°C                  | 15°C                  | "                | "                                                                    | "       | "                | "          |        | 9.525 ± 0.25                                  | 3.962 ± 0.25  |     |
| R           | Phenolic     | 0.15–2.7 µH       | LT4   | 1/B             | 125°C                  | 35°C                  | 90°C             | 1000VRMS                                                             | 200VRMS | 5 lbs.           | 70,000 ft. | R      | 0.438 ± 0.010                                 | 0.188 ± 0.010 | 22  |
|             | Powd. iron   | 3.3–27 µH         | LT10  | 1/A             | 105°C                  | 15°C                  | "                | "                                                                    | "       | "                | "          |        | 11.125 ± 0.25                                 | 4.775 ± 0.25  |     |
| S, V<br>& X |              | 270–<br>10,000 µH | LT10  | 1/A             | 105°C                  | 15°C                  | 90°C             | 700VRMS                                                              | 180VRMS | 5 lbs.           | 70,000 ft. | S      | 0.440 ± 0.010                                 | 0.190 ± 0.010 | 22  |
|             |              |                   |       |                 |                        |                       |                  |                                                                      |         |                  |            |        | 4.917 ± 0.25                                  | 4.826 ± 0.25  |     |
|             |              |                   |       |                 |                        |                       |                  |                                                                      |         |                  |            | V      | 0.560 ± 0.010                                 | 0.215 ± 0.010 | 22  |
|             |              |                   |       |                 |                        |                       |                  |                                                                      |         |                  |            |        | 14.224 ± 0.25                                 | 5.461 ± 0.25  |     |
|             |              |                   |       |                 |                        |                       |                  |                                                                      |         |                  |            | X      | 0.740 ± 0.010                                 | 0.240 ± 0.010 | 20  |
|             |              |                   |       |                 |                        |                       |                  |                                                                      |         |                  |            |        | 18.796 ± 0.25                                 | 6.096 ± 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) |
|--------------|----------------------|------------------|--------|-----------------------------|----------------|--------------|-----------------------|----------------|----------------------|------------------|--------|-----------------------------|----------------|--------------|-----------------------|----------------|----------------------|------------------|--------|-----------------------------|----------------|--------------|-----------------------|
| <b>18130</b> |                      |                  |        |                             |                |              |                       | <b>90538</b>   |                      |                  |        |                             |                |              |                       | <b>MS75101</b> |                      |                  |        |                             |                |              |                       |
| 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                   | <b>MS90539</b> |                      |                  |        |                             |                |              |                       |
| 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                    |
| <b>14046</b> |                      |                  |        |                             |                |              |                       | 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                    | <b>MS90540</b> |                      |                  |        |                             |                |              |                       |
| 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                   | <b>MS75008</b> |                      |                  |        |                             |                |              |                       | 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                    |
| <b>90538</b> |                      |                  |        |                             |                |              |                       | 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                   | <b>MS90541</b> |                      |                  |        |                             |                |              |                       |
| 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                    |
|              |                      |                  |        |                             |                |              |                       | <b>MS75101</b> |                      |                  |        |                             |                |              |                       | 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%