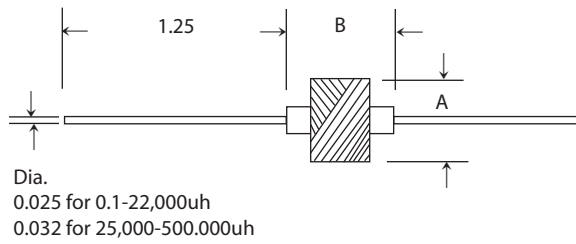


**Mechanical Specification**


Dimensions:Inches

**Special Features**

- High Q high self-resonant frequency
- High voltage application on phenolic and ferrite components
- Universal wound
- Low cost
- Varnish coated
- Operating temperature: phenolic -55°C to +125°C ; iron,ferrite -55 °C to +105°C

**Notes**

\* Current to cause 35°C max. temperature rise

**Electrical Specification**
**VV-42F SERIES**

| Part Number | L(μH)<br>±20% | Q  | Test Freq.<br>(MHz) | SRF | DCR<br>Ω<br>Max. | I <sub>DC</sub> *<br>(mA) | Dim.<br>A<br>Max | Dim.<br>B<br>±0.03 | Core Material |
|-------------|---------------|----|---------------------|-----|------------------|---------------------------|------------------|--------------------|---------------|
| VV-42F107AP | 0.10          | 49 | 25                  | 600 | 0.13             | 3922                      | 0.15             | 0.31               | Phenolic      |
| VV-42F157AP | 0.15          | 52 | 25                  | 490 | 0.25             | 2828                      | 0.14             | 0.31               | Phenolic      |
| VV-42F227AP | 0.22          | 48 | 25                  | 400 | 0.38             | 2294                      | 0.14             | 0.31               | Phenolic      |
| VV-42F337AP | 0.33          | 47 | 25                  | 330 | 0.70             | 1690                      | 0.12             | 0.31               | Phenolic      |
| VV-42F477AP | 0.47          | 46 | 25                  | 280 | 0.125            | 1264                      | 0.12             | 0.31               | Phenolic      |
| VV-42F687AP | 0.68          | 48 | 25                  | 240 | 0.20             | 1000                      | 0.12             | 0.31               | Phenolic      |
| VV-42F757AP | 0.75          | 48 | 25                  | 224 | 0.264            | 870                       | 0.12             | 0.31               | Phenolic      |
| VV-42F827AP | 0.82          | 48 | 25                  | 216 | 0.29             | 830                       | 0.12             | 0.31               | Phenolic      |
| VV-42F106AI | 1.0           | 41 | 25                  | 118 | 0.048            | 2041                      | 0.16             | 0.25               | Iron          |
| VV-42F126AI | ±10%<br>1.2   | 45 | 7.9                 | 118 | 0.072            | 1666                      | 0.16             | 0.25               | Iron          |
| VV-42F156AI | 1.5           | 42 | 7.9                 | 102 | 0.096            | 1443                      | 0.16             | 0.25               | Iron          |
| VV-42F186AI | 1.8           | 31 | 7.9                 | 89  | 0.096            | 1443                      | 0.16             | 0.25               | Iron          |
| VV-42F226AI | 2.2           | 43 | 7.9                 | 87  | 0.156            | 1132                      | 0.16             | 0.25               | Iron          |
| VV-42F276AI | 2.7           | 34 | 7.9                 | 74  | 0.168            | 1091                      | 0.16             | 0.25               | Iron          |
| VV-42F336AI | 3.3           | 40 | 7.9                 | 66  | 0.24             | 912                       | 0.15             | 0.25               | Iron          |



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**VV-42F SERIES**

| <b>Part Number</b> | <b>L(μH)<br/>±5%</b> | <b>Q<br/>Min.</b> | <b>Test Freq.<br/>(MHz)</b> | <b>SRF<br/>(MHz)<br/>Min.</b> | <b>DCR<br/>Ω<br/>Max.</b> | <b>I<sub>DC</sub>*<br/>(mA)</b> | <b>Dim.<br/>A<br/>Max</b> | <b>Dim.<br/>B<br/>±0.03</b> | <b>Core<br/>Material</b> |
|--------------------|----------------------|-------------------|-----------------------------|-------------------------------|---------------------------|---------------------------------|---------------------------|-----------------------------|--------------------------|
| VV-42F396AI        | 3.9                  | 35                | 7.9                         | 61                            | 0.264                     | 870                             | 0.15                      | 0.25                        | Iron                     |
| VV-42F476AI        | 4.7                  | 43                | 7.9                         | 53                            | 0.457                     | 661                             | 0.15                      | 0.25                        | Iron                     |
| VV-42F566AI        | 5.6                  | 41                | 7.9                         | 49                            | 0.492                     | 637                             | 0.15                      | 0.25                        | Iron                     |
| VV-42F686AI        | 6.8                  | 40                | 7.9                         | 49                            | 0.624                     | 566                             | 0.15                      | 0.25                        | Iron                     |
| VV-42F756AI        | 7.5                  | 32                | 7.9                         | 44                            | 0.624                     | 566                             | 0.15                      | 0.25                        | Iron                     |
| VV-42F826AI        | 8.2                  | 37                | 7.9                         | 41                            | 0.744                     | 518                             | 0.15                      | 0.25                        | Iron                     |
| VV-42F916AI        | 9.1                  | 41                | 7.9                         | 21                            | 1.44                      | 288                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F105AI        | 10                   | 36                | 7.9                         | 19                            | 1.56                      | 277                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F125AI        | 12                   | 52                | 2.5                         | 19                            | 1.68                      | 267                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F155AI        | 15                   | 52                | 2.5                         | 16                            | 1.92                      | 250                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F185AI        | ±5%<br>18            | 52                | 2.5                         | 15                            | 2.28                      | 229                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F225AI        | 22                   | 51                | 2.5                         | 13                            | 2.28                      | 229                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F255AI        | 25                   | 48                | 2.5                         | 13                            | 2.64                      | 213                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F275AI        | 27                   | 49                | 2.5                         | 12                            | 2.64                      | 213                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F335AI        | 33                   | 50                | 2.5                         | 10                            | 2.76                      | 208                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F395AI        | 39                   | 48                | 2.5                         | 9.3                           | 3.36                      | 188                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F475AI        | 47                   | 44                | 2.5                         | 9.1                           | 3.36                      | 188                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F565AI        | 56                   | 45                | 2.5                         | 8.6                           | 3.84                      | 176                             | 0.18                      | 0.25                        | Iron                     |
| VV-42F685AI        | 68                   | 42                | 2.5                         | 8.1                           | 4.2                       | 169                             | 0.18                      | 0.25                        | Iron                     |
| VV-42F755AI        | 75                   | 38                | 2.5                         | 7.2                           | 4.56                      | 162                             | 0.18                      | 0.25                        | Iron                     |
| VV-42F825AI        | 82                   | 41                | 2.5                         | 6.7                           | 4.8                       | 158                             | 0.18                      | 0.25                        | Iron                     |
| VV-42F915AI        | 91                   | 41                | 2.5                         | 6.7                           | 4.92                      | 156                             | 0.18                      | 0.25                        | Iron                     |
| VV-42F104AI        | 100                  | 25                | 2.5                         | 3.6                           | 7.68                      | 139                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F124AI        | 120                  | 40                | 0.79                        | 3.2                           | 8.16                      | 135                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F154AI        | 150                  | 47                | 0.79                        | 3.0                           | 8.16                      | 135                             | 0.16                      | 0.25                        | Iron                     |
| VV-42F184AI        | 180                  | 48                | 0.79                        | 2.8                           | 8.16                      | 135                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F204AI        | 200                  | 47                | 0.79                        | 2.7                           | 10.3                      | 120                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F224AI        | 220                  | 46                | 0.79                        | 2.5                           | 11.5                      | 114                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F254AI        | 250                  | 49                | 0.79                        | 2.5                           | 12.1                      | 111                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F274AI        | 270                  | 46                | 0.79                        | 2.5                           | 13.2                      | 106                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F304AI        | 300                  | 46                | 0.79                        | 2.2                           | 13.2                      | 106                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F334AI        | 330                  | 41                | 0.79                        | 2.0                           | 13.9                      | 103                             | 0.17                      | 0.25                        | Iron                     |
| VV-42F354AI        | 350                  | 46                | 0.79                        | 2.0                           | 14.4                      | 102                             | 0.18                      | 0.25                        | Iron                     |
| VV-42F394AI        | 390                  | 45                | 0.79                        | 2.0                           | 15.8                      | 97                              | 0.18                      | 0.25                        | Iron                     |
| VV-42F474AI        | 470                  | 35                | 0.79                        | 1.8                           | 16.3                      | 95                              | 0.18                      | 0.25                        | Iron                     |
| VV-42F504AI        | 500                  | 49                | 0.79                        | 1.8                           | 18.0                      | 91                              | 0.19                      | 0.25                        | Iron                     |
| VV-42F564AI        | 560                  | 41                | 0.79                        | 1.7                           | 19.2                      | 88                              | 0.19                      | 0.25                        | Iron                     |
| VV-42F684AI        | 680                  | 37                | 0.79                        | 1.6                           | 19.8                      | 87                              | 0.2                       | 0.25                        | Iron                     |
| VV-42F754AI        | 750                  | 40                | 0.79                        | 1.6                           | 22.9                      | 80                              | 0.21                      | 0.25                        | Iron                     |
| VV-42F824AI        | 820                  | 33                | 0.79                        | 1.6                           | 22.9                      | 80                              | 0.21                      | 0.25                        | Iron                     |
| VV-42F914AI        | 910                  | 32                | 0.79                        | 1.4                           | 24.0                      | 79                              | 0.22                      | 0.25                        | Iron                     |
| VV-42F103AI        | 1000                 | 30                | 0.79                        | 1.4                           | 24.0                      | 79                              | 0.22                      | 0.25                        | Iron                     |
| VV-42F123AI        | 1200                 | 34                | 0.25                        | 1.2                           | 33.6                      | 66                              | 0.22                      | 0.25                        | Iron                     |
| VV-42F153AI        | 1500                 | 40                | 0.25                        | 1.1                           | 37.2                      | 63                              | 0.22                      | 0.25                        | Iron                     |
| VV-42F183AI        | 1800                 | 40                | 0.25                        | 0.96                          | 42.0                      | 59                              | 0.23                      | 0.25                        | Iron                     |



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**VV-42F SERIES**

| <b>Part Number</b> | <b>L(μH)<br/>±5%</b> | <b>Q<br/>Min.</b> | <b>Test Freq.<br/>(MHz)</b> | <b>SRF<br/>(MHz)<br/>Min.</b> | <b>DCR<br/>Ω<br/>Max.</b> | <b>I<sub>DC</sub>*<br/>(mA)</b> | <b>Dim.<br/>A<br/>Max</b> | <b>Dim.<br/>B<br/>±0.03</b> | <b>Core<br/>Material</b> |
|--------------------|----------------------|-------------------|-----------------------------|-------------------------------|---------------------------|---------------------------------|---------------------------|-----------------------------|--------------------------|
| VV-42F223AI        | 2200                 | 40                | 0.25                        | 0.96                          | 45.6                      | 57                              | 0.24                      | 0.25                        | Iron                     |
| VV-42F253AI        | 2500                 | 48                | 0.25                        | 0.96                          | 45.6                      | 57                              | 0.26                      | 0.38                        | Iron                     |
| VV-42F273AI        | 2700                 | 50                | 0.25                        | 0.88                          | 45.6                      | 57                              | 0.26                      | 0.38                        | Iron                     |
| VV-42F333AI        | 3300                 | 52                | 0.25                        | 0.80                          | 51.6                      | 53                              | 0.26                      | 0.38                        | Iron                     |
| VV-42F393AI        | 3900                 | 53                | 0.25                        | 0.76                          | 57.6                      | 51                              | 0.27                      | 0.38                        | Iron                     |
| VV-42F473AI        | 4700                 | 49                | 0.25                        | 0.68                          | 64.8                      | 48                              | 0.28                      | 0.38                        | Iron                     |
| VV-42F563AI        | 5600                 | 53                | 0.25                        | 0.68                          | 69.6                      | 46                              | 0.3                       | 0.38                        | Iron                     |
| VV-42F683AI        | 6800                 | 51                | 0.25                        | 0.64                          | 78                        | 43                              | 0.31                      | 0.38                        | Iron                     |
| VV-42F753AI        | 7500                 | 49                | 0.25                        | 0.60                          | 85.2                      | 41                              | 0.31                      | 0.38                        | Iron                     |
| VV-42F823AI        | 8200                 | 48                | 0.25                        | 0.60                          | 92.4                      | 40                              | 0.33                      | 0.38                        | Iron                     |
| VV-42F913AI        | 9100                 | 52                | 0.25                        | 0.56                          | 98.4                      | 39                              | 0.33                      | 0.38                        | Iron                     |
| VV-42F102AI        | 10,000               | 41                | 0.25                        | 0.52                          | 101                       | 38                              | 0.33                      | 0.38                        | Iron                     |
| VV-42F122AI        | 12,000               | 46                | 0.079                       | 0.36                          | 100                       | 50                              | 0.3                       | 0.50                        | Iron                     |
| VV-42F152AI        | 15,000               | 50                | 0.079                       | 0.32                          | 113                       | 47                              | 0.3                       | 0.50                        | Iron                     |
| VV-42F182AI        | 18,000               | 49                | 0.079                       | 0.29                          | 128                       | 44                              | 0.32                      | 0.50                        | Iron                     |
| VV-42F222AI        | 22,000               | 50                | 0.079                       | 0.27                          | 144                       | 41                              | 0.33                      | 0.50                        | Iron                     |
| VV-42F252AI        | 25,000               | 59                | 0.079                       | 0.25                          | 115                       | 46                              | 0.34                      | 0.63                        | Ferrite                  |
| VV-42F272AF        | 27,000               | 61                | 0.079                       | 0.244                         | 120                       | 45                              | 0.35                      | 0.63                        | Ferrite                  |
| VV-42F332AF        | 33,000               | 61                | 0.079                       | 0.232                         | 134                       | 43                              | 0.35                      | 0.63                        | Ferrite                  |
| VV-42F392AF        | 39,000               | 59                | 0.079                       | 0.22                          | 147                       | 41                              | 0.37                      | 0.63                        | Ferrite                  |
| VV-42F472AF        | 47,000               | 57                | 0.079                       | 0.206                         | 168                       | 38                              | 0.38                      | 0.63                        | Ferrite                  |
| VV-42F502AF        | 50,000               | 57                | 0.079                       | 196                           | 175                       | 37                              | 0.4                       | 0.63                        | Ferrite                  |
| VV-42F562AF        | 56,000               | 57                | 0.079                       | 0.188                         | 189                       | 36                              | 0.4                       | 0.63                        | Ferrite                  |
| VV-42F682AF        | 68,000               | 57                | 0.079                       | 0.18                          | 215                       | 34                              | 0.41                      | 0.63                        | Ferrite                  |
| VV-42F752AF        | 75,000               | 53                | 0.079                       | 0.174                         | 222                       | 33                              | 0.43                      | 0.63                        | Ferrite                  |
| VV-42F822AF        | 82,000               | 50                | 0.079                       | 0.168                         | 238                       | 32                              | 0.43                      | 0.63                        | Ferrite                  |
| VV-42F912AF        | 91,000               | 51                | 0.079                       | 0.166                         | 250                       | 31                              | 0.43                      | 0.63                        | Ferrite                  |
| VV-42F101AF        | 100,000              | 48                | 0.079                       | 0.157                         | 278                       | 29                              | 0.44                      | 0.63                        | Ferrite                  |
|                    | L tested<br>@1 KHz   |                   |                             |                               |                           |                                 |                           |                             |                          |
| VV-42F121AF        | 120,000              | 46                | 0.025                       | 0.084                         | 288                       | 48                              | 0.48                      | 0.88                        | Ferrite                  |
| VV-42F151AF        | 150,000              | 49                | 0.025                       | 0.077                         | 328                       | 44                              | 0.50                      | 0.88                        | Ferrite                  |
| VV-42F181AF        | 180,000              | 51                | 0.025                       | 0.075                         | 374                       | 41                              | 0.52                      | 0.88                        | Ferrite                  |
| VV-42F221AF        | 220,000              | 51                | 0.025                       | 0.07                          | 424                       | 39                              | 0.54                      | 0.88                        | Ferrite                  |
| VV-42F251AF        | 250,000              | 52                | 0.025                       | 0.065                         | 468                       | 37                              | 0.55                      | 0.88                        | Ferrite                  |
| VV-42F271AF        | 270,000              | 53                | 0.025                       | 0.062                         | 490                       | 36                              | 0.57                      | 0.88                        | Ferrite                  |
| VV-42F331AF        | 330,000              | 54                | 0.025                       | 0.06                          | 540                       | 34                              | 0.58                      | 0.88                        | Ferrite                  |
| VV-42F391AF        | 390,000              | 54                | 0.025                       | 0.056                         | 617                       | 33                              | 0.6                       | 0.88                        | Ferrite                  |
| VV-42F471AF        | 470,000              | 55                | 0.025                       | 0.054                         | 704                       | 30                              | 0.61                      | 0.88                        | Ferrite                  |
| VV-42F501AF        | 500,000              | 53                | 0.025                       | 0.052                         | 736                       | 30                              | 0.63                      | 0.88                        | Ferrite                  |