



## DP Series • Low Cost Power Inductors

**DP Series** Power Inductors provide an excellent, low cost alternative to conventional chokes or inductors. Used in EMI filtering and energy storage, these compact, low radiation inductors are extremely effective in controlling AC output ripple of Switch Mode Power Supplies.

### Features

- Broad range of inductance values and current ratings
- Low cost, no radiation design
- Hot Solder, pre-tinned leads for easy PC board mounting
- Operating frequency to 100kHz
- Competitive pricing due to high volume production
- Manufactured in ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- Fully RoHS compliant



### Electrical Specifications @ 25°C

Test frequency: Inductance measured @ 10kHz/10mV

Test voltage between windings: 500Vrms

Operating temperature: -40°C to +125°C

Climatic category: IEC68-1 40/125/56



### Applications

Switching Power Supplies • EMI/RFI filtering • Output Chokes

| Part Number   | I <sub>DC</sub><br>Amps | L(μH) Typ.<br>@<br>Rated Current | L <sub>O</sub> (μH)<br>±15%<br>No Load | DCR<br>(Ohms<br>Max.) | Min. Energy<br>Storage<br>(μJ)* | Wire<br>Ø<br>(mm) | Coil Size<br>mm<br>OD x Ht. | Mounting Style<br>Availability / Size |    |    |   |
|---------------|-------------------------|----------------------------------|--|-----------------------|---------------------------------|-------------------|-----------------------------|---------------------------------------|----|----|---|
|               |                         |                                  |  |                       |                                 |                   |                             | C                                     | B  | V  | F |
| DP__-0.5--47  | 0.5                     | 47                               | 50                                     | 0.095                 | 5.9                             | 0.400             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-0.5-68   |                         | 68                               | 73                                     | 0.115                 | 8.5                             | 0.400             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-0.5-100  |                         | 100                              | 109                                    | 0.140                 | 12.5                            | 0.400             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-0.5-150  |                         | 150                              | 167                                    | 0.173                 | 18.8                            | 0.400             | 15 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-0.5-220  |                         | 220                              | 258                                    | 0.215                 | 27.5                            | 0.400             | 15 X 9                      | 2                                     | 3  | 2  | 2 |
| DP__-0.5-330  |                         | 330                              | 393                                    | 0.265                 | 41.3                            | 0.400             | 15 X 9                      | 2                                     | 3  | 2  | 2 |
| DP__-0.5-470  |                         | 470                              | 557                                    | 0.322                 | 58.8                            | 0.400             | 20 X 9                      | 3                                     | 3  | 3  | 3 |
| DP__-0.5-680  |                         | 680                              | 849                                    | 0.398                 | 85                              | 0.400             | 20 X 10                     | 3                                     | 3  | 3  | 3 |
| DP__-0.5-1000 |                         | 1,000                            | 1,358                                  | 0.503                 | 125                             | 0.400             | 21 X 11                     | 3                                     | 5  | 4  | 3 |
| DP__-0.5-1500 |                         | 1,500                            | 1,863                                  | 0.714                 | 188                             | 0.400             | 25 X 12                     | 5                                     | 5  | 4  | 4 |
| DP__-0.5-2200 |                         | 2,200                            | 3,131                                  | 0.926                 | 275                             | 0.400             | 25 X 12                     | 5                                     | 5  | 4  | 4 |
| DP__-0.5-3300 |                         | 3,300                            | 5,024                                  | 1.173                 | 413                             | 0.400             | 26 X 13                     | 5                                     | 5  | 5  | 6 |
| DP__-0.5-4700 |                         | 4,700                            | 6,287                                  | 1.421                 | 588                             | 0.400             | 32 X 15                     | 5                                     | 8  | 5  | 6 |
| DP__-1.0-22   | 1.0                     | 22                               | 23                                     | 0.041                 | 11                              | 0.500             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-1.0-33   |                         | 33                               | 37                                     | 0.052                 | 16.5                            | 0.500             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-1.0-47   |                         | 47                               | 53                                     | 0.063                 | 23.5                            | 0.500             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-1.0-68   |                         | 68                               | 80                                     | 0.077                 | 34                              | 0.500             | 14 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-1.0-100  |                         | 100                              | 127                                    | 0.097                 | 50                              | 0.500             | 15 X 8                      | 2                                     | 3  | 2  | 2 |
| DP__-1.0-150  |                         | 150                              | 207                                    | 0.123                 | 75                              | 0.500             | 15 X 9                      | 2                                     | 3  | 3  | 2 |
| DP__-1.0-220  |                         | 220                              | 345                                    | 0.196                 | 110                             | 0.450             | 15 X 9                      | 2                                     | 3  | 3  | 2 |
| DP__-1.0-330  |                         | 330                              | 491                                    | 0.193                 | 165                             | 0.500             | 20 X 9                      | 3                                     | 3  | 3  | 3 |
| DP__-1.0-470  |                         | 470                              | 601                                    | 0.180                 | 235                             | 0.600             | 27 X 12                     | 5                                     | 5  | 5  | 6 |
| DP__-1.0-680  |                         | 680                              | 891                                    | 0.220                 | 340                             | 0.600             | 27 X 13                     | 5                                     | 5  | 5  | 6 |
| DP__-1.0-1000 |                         | 1,000                            | 1,619                                  | 0.426                 | 500                             | 0.500             | 26 X 13                     | 4                                     | 5  | 5  | 6 |
| DP__-1.0-1500 |                         | 1,500                            | 2,149                                  | 0.532                 | 750                             | 0.500             | 30 X 14                     | 5                                     | 5  | 5  | 6 |
| DP__-1.0-2200 |                         | 2,200                            | 3,609                                  | 0.689                 | 1100                            | 0.500             | 31 X 15                     | 5                                     | 5  | 6  | 6 |
| DP__-1.0-3300 | 3,300                   | 4,731                            | 0.609                                  | 1650                  | 0.600                           | 43 X 15           | --                          | 8                                     | -- | -- |   |

**Note:** The μJoule rating (0.5 x LI<sup>2</sup>) is the ability of the inductor to store energy.

**THE TALEMA GROUP • Magnetic Components for Universal Applications**

## DP Series • Low Cost Power Inductors

### Electrical Specifications at 25 °C

| Part Number  | I <sub>DC</sub><br>Amps | L (µH) Typ.<br>@<br>Rated Current | L <sub>0</sub> (µH)<br>±15%<br>No Load | DCR<br>(Ohms<br>Max.) | Min Energy<br>Storage<br>(µJ)* | Wire<br>Ø<br>(mm) | Coil Size<br>mm<br>O.D. x Ht. | Mounting Style<br>Availability / Size |    |    |    |
|--------------|-------------------------|-----------------------------------|--|-----------------------|--------------------------------|-------------------|-------------------------------|---------------------------------------|----|----|----|
|              |                         |                                   |  |                       |                                |                   |                               | C                                     | B  | V  | F  |
| DP_-2.0-22   | 2.0                     | 22                                | 27                                     | 0.070                 | 44                             | 0.400             | 14 x 8                        | 2                                     | 3  | 2  | 2  |
| DP_-2.0-33   |                         | 33                                | 45                                     | 0.089                 | 66                             | 0.400             | 14 x 8                        | 2                                     | 3  | 2  | 2  |
| DP_-2.0-47   |                         | 47                                | 73                                     | 0.090                 | 94                             | 0.450             | 15 x 8                        | 2                                     | 3  | 2  | 2  |
| DP_-2.0-68   |                         | 68                                | 109                                    | 0.089                 | 136                            | 0.500             | 15 x 8                        | 2                                     | 3  | 2  | 2  |
| DP_-2.0-100  |                         | 100                               | 157                                    | 0.109                 | 200                            | 0.500             | 19 x 8                        | 3                                     | 3  | 3  | 3  |
| DP_-2.0-150  |                         | 150                               | 207                                    | 0.106                 | 300                            | 0.600             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-2.0-220  |                         | 220                               | 328                                    | 0.153                 | 440                            | 0.560             | 25 x 11                       | 4                                     | 5  | 4  | 4  |
| DP_-2.0-330  |                         | 330                               | 575                                    | 0.202                 | 660                            | 0.560             | 26 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-2.0-470  |                         | 470                               | 720                                    | 0.214                 | 940                            | 0.600             | 30 x 14                       | 5                                     | 5  | 5  | 6  |
| DP_-2.0-680  |                         | 680                               | 1,251                                  | 0.282                 | 1,360                          | 0.600             | 30 x 14                       | 5                                     | 5  | 5  | 6  |
| DP_-2.0-1000 |                         | 1000                              | 1,429                                  | 0.335                 | 2,000                          | 0.600             | 42 x 14                       | --                                    | 5  | 9  | -- |
| DP_-2.0-1500 |                         | 1500                              | 2,488                                  | 0.441                 | 3,000                          | 0.600             | 42 x 15                       | --                                    | 8  | 9  | -- |
| DP_-2.0-2200 |                         | 2200                              | 3,218                                  | 0.405                 | 4,400                          | 0.710             | 51 x 22                       | --                                    | 10 | -- | -- |
| DP_-3.0-15   | 3.0                     | 15                                | 21                                     | 0.039                 | 68                             | 0.500             | 14 x 8                        | 2                                     | 3  | 2  | 2  |
| DP_-3.0-22   |                         | 22                                | 34                                     | 0.050                 | 99                             | 0.500             | 14 x 8                        | 2                                     | 3  | 2  | 2  |
| DP_-3.0-33   |                         | 33                                | 49                                     | 0.038                 | 149                            | 0.630             | 19 x 8                        | 3                                     | 3  | 3  | 3  |
| DP_-3.0-47   |                         | 47                                | 75                                     | 0.048                 | 212                            | 0.630             | 20 x 8                        | 3                                     | 3  | 3  | 3  |
| DP_-3.0-68   |                         | 68                                | 92                                     | 0.060                 | 306                            | 0.630             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-3.0-100  |                         | 100                               | 157                                    | 0.080                 | 458                            | 0.630             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-3.0-150  |                         | 150                               | 256                                    | 0.107                 | 675                            | 0.630             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-3.0-220  |                         | 220                               | 346                                    | 0.134                 | 990                            | 0.630             | 29 x 13                       | 5                                     | 5  | 5  | 6  |
| DP_-3.0-330  |                         | 330                               | 625                                    | 0.142                 | 1,485                          | 0.710             | 30 x 14                       | 5                                     | 5  | 5  | 6  |
| DP_-3.0-470  |                         | 470                               | 727                                    | 0.187                 | 2,115                          | 0.670             | 42 x 14                       | --                                    | 5  | 9  | -- |
| DP_-3.0-680  |                         | 680                               | 1,124                                  | 0.302                 | 3,060                          | 0.630             | 42 x 16                       | --                                    | 8  | -- | -- |
| DP_-3.0-1000 |                         | 1000                              | 1,493                                  | 0.304                 | 4,500                          | 0.670             | 49 x 20                       | --                                    | 10 | -- | -- |
| DP_-3.0-1500 |                         | 1500                              | 2,324                                  | 0.384                 | 6,750                          | 0.670             | 53 x 24                       | --                                    | 11 | -- | -- |
| DP_-3.0-2200 | 2200                    | 4,090                             | 0.509                                  | 9,900                 | 0.670                          | 54 x 26           | --                            | 11                                    | -- | -- |    |
| DP_-5.0-15   | 5.0                     | 15                                | 23                                     | 0.029                 | 188                            | 0.600             | 20 x 8                        | 3                                     | 3  | 3  | 3  |
| DP_-5.0-22   |                         | 22                                | 28                                     | 0.039                 | 275                            | 0.600             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-5.0-33   |                         | 33                                | 48                                     | 0.036                 | 413                            | 0.710             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-5.0-47   |                         | 47                                | 82                                     | 0.043                 | 588                            | 0.750             | 25 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-5.0-68   |                         | 68                                | 137                                    | 0.055                 | 850                            | 0.750             | 26 x 12                       | 4                                     | 5  | 4  | 4  |
| DP_-5.0-100  |                         | 100                               | 172                                    | 0.059                 | 1,250                          | 0.800             | 30 x 13                       | 5                                     | 5  | 5  | 6  |
| DP_-5.0-150  |                         | 150                               | 221                                    | 0.094                 | 1,875                          | 0.710             | 41 x 13                       | --                                    | 5  | 9  | -- |
| DP_-5.0-220  |                         | 220                               | 381                                    | 0.097                 | 2,750                          | 0.800             | 41 x 13                       | --                                    | 5  | 9  | -- |
| DP_-5.0-330  |                         | 330                               | 475                                    | 0.156                 | 4,125                          | 0.710             | 49 x 20                       | --                                    | 10 | -- | -- |
| DP_-5.0-470  |                         | 470                               | 852                                    | 0.187                 | 5,875                          | 0.750             | 49 x 20                       | --                                    | 10 | -- | -- |
| DP_-5.0-680  |                         | 680                               | 1,186                                  | 0.196                 | 8,500                          | 0.800             | 53 x 25                       | --                                    | 11 | -- | -- |
| DP_-5.0-1000 |                         | 1000                              | 2,093                                  | 0.206                 | 12,500                         | 0.900             | 55 x 26                       | --                                    | 11 | -- | -- |
| DP_-7.5-15   |                         | 7.5                               | 15                                     | 18                    | 0.022                          | 422               | 0.750                         | 30 x 14                               | 5  | 5  | 5  |
| DP_-7.5-22   | 22                      |                                   | 30                                     | 0.025                 | 619                            | 0.800             | 30 x 14                       | 5                                     | 5  | 5  | 6  |
| DP_-7.5-33   | 33                      |                                   | 49                                     | 0.025                 | 928                            | 0.900             | 30 x 14                       | 5                                     | 5  | 5  | 6  |
| DP_-7.5-47   | 47                      |                                   | 84                                     | 0.026                 | 1,322                          | 1.000             | 31x 14                        | 5                                     | 5  | 5  | 6  |
| DP_-7.5-68   | 68                      |                                   | 105                                    | 0.040                 | 1,913                          | 0.900             | 42 x 14                       | --                                    | 5  | 9  | -- |
| DP_-7.5-100  | 100                     |                                   | 160                                    | 0.045                 | 2,813                          | 1.000             | 43 x 17                       | --                                    | 8  | -- | -- |
| DP_-7.5-150  | 150                     |                                   | 219                                    | 0.074                 | 4,219                          | 0.850             | 50 x 21                       | --                                    | 10 | -- | -- |
| DP_-7.5-220  | 220                     |                                   | 373                                    | 0.070                 | 6,188                          | 1.000             | 51 x 22                       | --                                    | 10 | -- | -- |
| DP_-7.5-330  | 330                     |                                   | 605                                    | 0.090                 | 9,281                          | 1.000             | 54 x 25                       | --                                    | 11 | -- | -- |
| DP_-7.5-470  | 470                     |                                   | 1,054                                  | 0.085                 | 13,219                         | 1.180             | 55 x 28                       | --                                    | 11 | -- | -- |

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(02-07) DP Series

## DP Series • Low Cost Power Inductors

### Electrical Specifications at 25°C

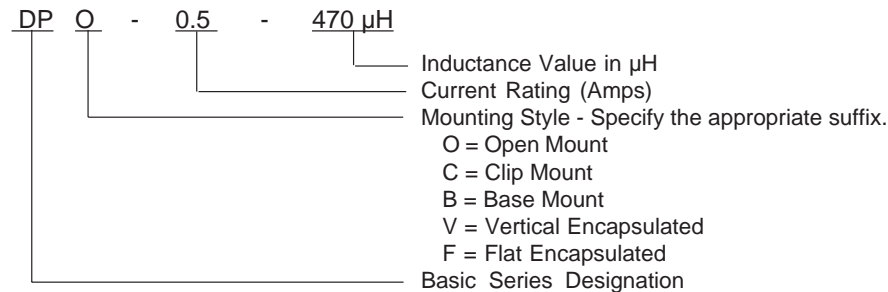
| Part Number | I <sub>DC</sub><br>Amps | L (μH) Typ.<br>@<br>Rated Current | L <sub>0</sub> (μH)<br>±15%<br>No Load | DCR<br>(Ohms<br>Max.) | Min. Energy<br>Storage<br>(μJ)* | Wire<br>Ø<br>mm | Coil size<br>mm<br>O.D. x Ht. | Mounting Style<br>Availability / Size |    |    |    |
|-------------|-------------------------|-----------------------------------|--|-----------------------|---------------------------------|-----------------|-------------------------------|---------------------------------------|----|----|----|
|             |                         |                                   |  |                       |                                 |                 |                               | C                                     | B  | V  | F  |
| DP__-10-15  | 10                      | 15                                | 21                                     | 0.013                 | 750                             | 1.000           | 30 X 14                       | 5                                     | 5  | 5  | 6  |
| DP__-10-22  |                         | 22                                | 28                                     | 0.021                 | 1,100                           | 0.900           | 41 X 14                       | --                                    | 5  | 9  | -- |
| DP__-10-33  |                         | 33                                | 46                                     | 0.022                 | 1,650                           | 1.000           | 42 X 14                       | --                                    | 5  | 9  | -- |
| DP__-10-47  |                         | 47                                | 75                                     | 0.028                 | 2,350                           | 1.000           | 42 X 14                       | --                                    | 5  | 9  | -- |
| DP__-10-68  |                         | 68                                | 89                                     | 0.042                 | 3,400                           | 0.900           | 50 X 21                       | --                                    | 10 | -- | -- |
| DP__-10-100 |                         | 100                               | 152                                    | 0.044                 | 5,000                           | 1.000           | 50 X 21                       | --                                    | 10 | -- | -- |
| DP__-10-150 |                         | 150                               | 248                                    | 0.041                 | 7,500                           | 1.180           | 55 X 26                       | --                                    | 11 | -- | -- |
| DP__-10-220 |                         | 220                               | 427                                    | 0.054                 | 11,000                          | 1.180           | 55 X 26                       | --                                    | 11 | -- | -- |
| DP__-15-6.8 | 15                      | 6.8                               | 8                                      | 0.009                 | 765                             | 1.000           | 41 X 14                       | --                                    | 5  | 9  | -- |
| DP__-15-10  |                         | 10                                | 14                                     | 0.012                 | 1,125                           | 1.000           | 41 X 14                       | --                                    | 5  | 9  | -- |
| DP__-15-15  |                         | 15                                | 22                                     | 0.011                 | 1,688                           | 1.180           | 41 X 14                       | --                                    | 5  | 9  | -- |
| DP__-15-22  |                         | 22                                | 36                                     | 0.014                 | 2,475                           | 1.250           | 44 X 18                       | --                                    | 8  | -- | -- |
| DP__-15-33  |                         | 33                                | 49                                     | 0.018                 | 3,713                           | 1.180           | 50 X 21                       | --                                    | 10 | -- | -- |
| DP__-15-47  |                         | 47                                | 75                                     | 0.016                 | 5,288                           | 1.400           | 51 X 22                       | --                                    | 11 | -- | -- |
| DP__-15-68  |                         | 68                                | 123                                    | 0.018                 | 7,650                           | 1.500           | 52 X 23                       | --                                    | 11 | -- | -- |
| DP__-15-100 |                         | 100                               | 207                                    | 0.023                 | 11,250                          | 1.500           | 56 X 27                       | --                                    | 11 | -- | -- |

Talema's engineering staff can assist in the design of other inductance values and sizes.

#### Notes

- 1) The μJoule rating ( $0.5 \times LI^2$ ) is the ability of the inductor to store energy.
- 2) Inductance is measured at 0.10Vrms @ 10kHz without DC Current and 0.25 Vrms @ 10kHz with DC Current.

#### Ordering Key



### Sales & Marketing, Design and Manufacturing Facilities

<http://www.talema-nuvotem.com>

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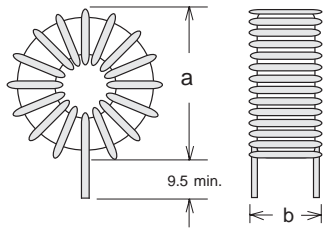
**India**  
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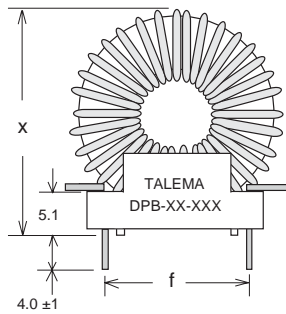
# Mounting Styles • DP Series - Low Cost Power Inductors

## Base Mount

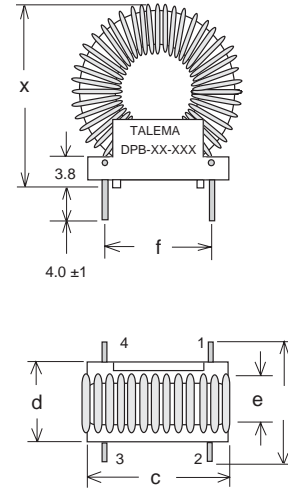
Type O - Open Mount



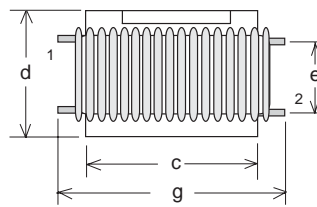
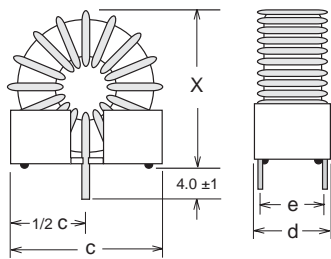
Type B-I



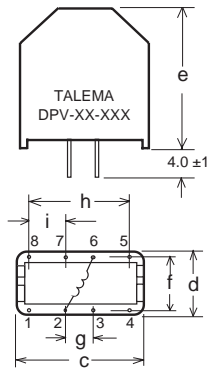
Type B-II



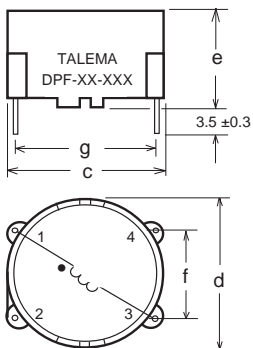
Type C - Clip Mount



Type V - Vertical Mount



Type F - Flat Mount



| Mounting Style        | Size Code | Dimensions (mm) |      |      |      |      |      |     |                 | Pin Ø           |
|-----------------------|-----------|-----------------|------|------|------|------|------|-----|-----------------|-----------------|
|                       |           | c               | d    | e    | f    | g    | h    | i   | x               |                 |
| "C"<br>Clip Mount     | 2         | 16.5            | 11.4 | 7.6  | --   | --   | --   | --  | Coil O.D. + 2.8 | See Data Page   |
|                       | 3         | 21.0            | 11.4 | 7.6  | --   | --   | --   | --  | Coil O.D. + 2.8 |                 |
|                       | 4         | 24.1            | 15.2 | 11.4 | --   | --   | --   | --  | Coil O.D. + 2.8 |                 |
|                       | 5         | 31.8            | 17.8 | 12.7 | --   | --   | --   | --  | Coil O.D. + 3.3 |                 |
| "V"<br>Vertical Mount | 2         | 17.8            | 12.8 | 20.0 | 10.0 | 5.0  | 15.0 | 5.0 | --              | 0.60 x 0.88     |
|                       | 3         | 23.0            | 15.5 | 25.0 | 12.5 | 10.0 | 20.0 | 5.0 | --              |                 |
|                       | 4         | 27.0            | 18.0 | 30.0 | 15.0 | 12.5 | 22.5 | 5.0 | --              |                 |
|                       | 5         | 32.0            | 20.5 | 35.0 | 17.5 | 12.5 | 27.5 | 7.5 | --              |                 |
|                       | 6         | 32.0            | 23.0 | 35.0 | 20.0 | 12.5 | 27.5 | 7.5 | --              |                 |
| "F"<br>Flat Mount     | 9         | 43.0            | 28.0 | 47.5 | 25.0 | 25.0 | 40.0 | 7.5 | --              | 0.60 x 0.88     |
|                       | 2         | 17.5            | 17.0 | 12.5 | 10.0 | 15.0 | --   | --  | --              |                 |
|                       | 3         | 22.5            | 22.0 | 15.0 | 12.5 | 20.0 | --   | --  | --              |                 |
|                       | 4         | 27.5            | 27.0 | 17.5 | 15.0 | 25.0 | --   | --  | --              |                 |
| Base Mount<br>"B-I"   | 6         | 32.5            | 32.0 | 20.0 | 20.0 | 30.0 | --   | --  | --              | Coil O.D. + 3.5 |
|                       | 8         | 42.5            | 42.0 | 28.5 | 25.0 | 35.0 | --   | --  | --              |                 |
|                       | 10        | 25.4            | 15.2 | 10.2 | 20.3 | 34.3 | --   | --  | --              |                 |
| "B-II"                | 11        | 27.9            | 20.3 | 15.2 | 22.9 | 36.8 | --   | --  | --              | 1.27            |
|                       | 3         | 43.2            | 27.9 | 22.9 | 38.1 | 52.1 | --   | --  | --              |                 |
| "B-II"                | 3         | 19.1            | 10.8 | 6.4  | 15.2 | 15.9 | --   | --  | Coil O.D. + 3.8 | 1.02            |

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