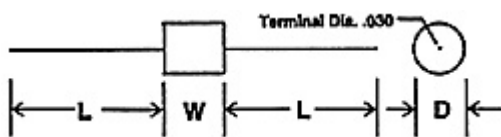


Miniaturized Power Inductors With  
Axial Leads, Shielded Construction

These inductors utilize special techniques to minimize cross coupling and give the utmost in shielding efficiency. They are ideal for Noise, Spike and Power Filtering Applications in Power Supplies, DC-DC Converters and Switching Regulators.

Specifications

- Inductance measured at 0.1V RMS -100 KHz
- Maximum ambient plus temp. rise limited to 130°C  
(i.e. temp. rise for 72205 at .425 AMPS will be 12°C, ambient should be limited to 118°C - at .64AMPS temp. rise is 30°C, ambient should be limited to 100°C
- Minimum possible size
- Shielded construction
- Mountable through PC board or to posts
- Manufactured to MIL-PRF-27, Grade 5 Class S
- Suitable for reel-mounted assembly
- Low losses



| Size | L              | W              | D              |
|------|----------------|----------------|----------------|
| A    | 1.25<br>(31.7) | .450<br>(11.4) | .350<br>(8.9)  |
| B    | 1.25<br>(31.7) | .500<br>(12.7) | .420<br>(10.7) |
| C    | 1.25<br>(31.7) | .600<br>(15.2) | .500<br>(12.7) |
| D    | 1.25<br>(31.7) | .820<br>(20.8) | .560<br>(14.2) |

All dimensions are in inches, ( ) = mm

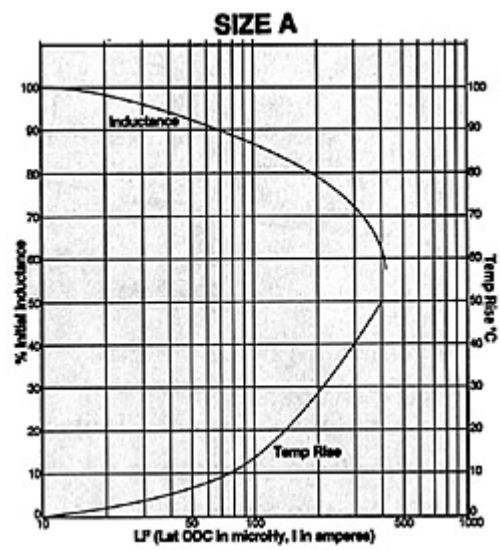
| SIZE A                  |                                  |                                  |                                  |             |            |              |                        |                           |
|-------------------------|----------------------------------|----------------------------------|----------------------------------|-------------|------------|--------------|------------------------|---------------------------|
| LODC<br>MICROHY<br>(μH) | IDC for 10%<br>DROP in L<br>AMPS | IDC for 20%<br>DROP in L<br>AMPS | IDC for 30%<br>DROP in L<br>AMPS | RDC<br>OHMS | SRF<br>MHz | Q@<br>100KHz | PICO<br>PART<br>NUMBER | PRICE<br>(1-9)<br>(US \$) |
| 500                     | .425                             | .640                             | .848                             | .74         | 1.4        | 25           | 72205                  | 48.84                     |
| 375                     | .490                             | .740                             | .98                              | .55         | 1.6        | 25           | 72215                  | 48.84                     |
| 250                     | .600                             | .906                             | 1.2                              | .36         | 2.0        | 25           | 72225                  | 48.84                     |
| 150                     | .775                             | 1.17                             | 1.55                             | .22         | 2.5        | 25           | 72235                  | 48.84                     |
| 100                     | .950                             | 1.43                             | 1.90                             | .15         | 3.0        | 25           | 72245                  | 48.84                     |
| 75                      | 1.01                             | 1.65                             | 2.2                              | .11         | 3.6        | 25           | 72255                  | 48.84                     |
| 50                      | 1.34                             | 2.02                             | 2.7                              | .075        | 4.4        | 25           | 72265                  | 48.84                     |

| SIZE B                  |                                  |                                  |                                  |             |            |              |                        |                           |
|-------------------------|----------------------------------|----------------------------------|----------------------------------|-------------|------------|--------------|------------------------|---------------------------|
| LODC<br>MICROHY<br>(μH) | IDC for 10%<br>DROP in L<br>AMPS | IDC for 20%<br>DROP in L<br>AMPS | IDC for 30%<br>DROP in L<br>AMPS | RDC<br>OHMS | SRF<br>MHz | Q@<br>100KHz | PICO<br>PART<br>NUMBER | PRICE<br>(1-9)<br>(US \$) |
| 1000                    | 0.45                             | 0.600                            | 0.750                            | 0.85        | .9         | 25           | 72310                  | 48.84                     |
| 750                     | 0.52                             | 0.693                            | 0.866                            | 0.64        | 1.04       | 25           | 72320                  | 48.84                     |
| 500                     | 0.63                             | 0.848                            | 1.06                             | 0.43        | 1.3        | 25           | 72330                  | 48.84                     |
| 375                     | 0.73                             | 0.980                            | 1.22                             | 0.32        | 1.5        | 25           | 72340                  | 48.84                     |
| 250                     | 0.90                             | 1.20                             | 1.5                              | 0.22        | 1.8        | 25           | 72350                  | 48.84                     |
| 150                     | 1.16                             | 1.550                            | 1.93                             | 0.13        | 2.3        | 25           | 72360                  | 48.84                     |
| 100                     | 1.42                             | 1.9                              | 2.37                             | 0.110       | 2.8        | 25           | 72370                  | 48.84                     |
| 75                      | 1.64                             | 2.2                              | 2.73                             | 0.064       | 3.3        | 25           | 72380                  | 48.84                     |
| 50                      | 2.0                              | 2.7                              | 3.35                             | 0.043       | 4.0        | 25           | 72390                  | 48.84                     |

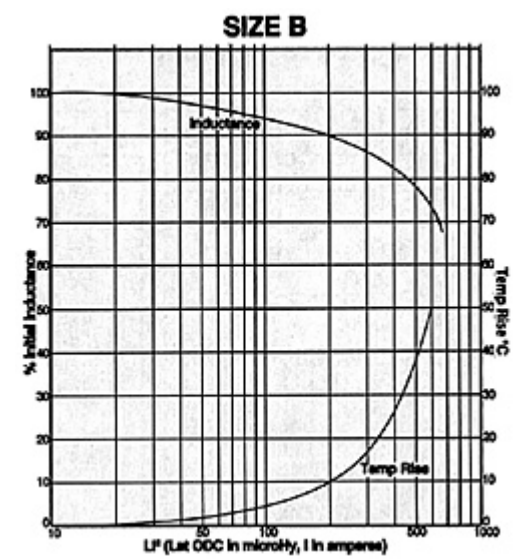
| SIZE C                  |                                  |                                  |                                  |             |            |              |                        |                           |
|-------------------------|----------------------------------|----------------------------------|----------------------------------|-------------|------------|--------------|------------------------|---------------------------|
| LODC<br>MICROHY<br>(μH) | IDC for 10%<br>DROP in L<br>AMPS | IDC for 20%<br>DROP in L<br>AMPS | IDC for 30%<br>DROP in L<br>AMPS | RDC<br>OHMS | SRF<br>MHz | Q@<br>100KHz | PICO<br>PART<br>NUMBER | PRICE<br>(1-9)<br>(US \$) |
| 1000                    | 0.500                            | 0.750                            | 1.0                              | .700        | .85        | 25           | 72405                  | 48.84                     |
| 750                     | 0.580                            | 0.866                            | 1.15                             | .520        | 1.0        | 25           | 72415                  | 48.84                     |
| 500                     | 0.707                            | 1.06                             | 1.41                             | .350        | 1.2        | 25           | 72425                  | 48.84                     |
| 375                     | 0.816                            | 1.22                             | 1.63                             | .260        | 1.4        | 25           | 72435                  | 48.84                     |
| 250                     | 1.0                              | 1.50                             | 2.0                              | .175        | 1.7        | 25           | 72445                  | 48.84                     |
| 150                     | 1.29                             | 1.93                             | 2.58                             | .105        | 2.2        | 25           | 72455                  | 48.84                     |
| 100                     | 1.58                             | 2.37                             | 3.16                             | .070        | 2.7        | 25           | 72465                  | 48.84                     |
| 75                      | 1.82                             | 2.73                             | 3.65                             | .053        | 3.1        | 25           | 72475                  | 48.84                     |
| 50                      | 2.25                             | 3.35                             | 4.5                              | .035        | 4.0        | 25           | 72485                  | 48.84                     |

| SIZE D                  |                                  |                                  |                                  |             |            |              |                        |                           |
|-------------------------|----------------------------------|----------------------------------|----------------------------------|-------------|------------|--------------|------------------------|---------------------------|
| LODC<br>MICROHY<br>(μH) | IDC for 10%<br>DROP in L<br>AMPS | IDC for 20%<br>DROP in L<br>AMPS | IDC for 30%<br>DROP in L<br>AMPS | RDC<br>OHMS | SRF<br>MHz | Q@<br>100KHz | PICO<br>PART<br>NUMBER | PRICE<br>(1-9)<br>(US \$) |
| 200                     | 1.4                              | 2.14                             | 2.76                             | .107        | 1.7        | 35           | 72500                  | 48.84                     |
| 175                     | 1.5                              | 2.29                             | 2.95                             | .093        | 2.0        | 35           | 72510                  | 48.84                     |
| 150                     | 1.6                              | 2.47                             | 3.18                             | .08         | 2.2        | 35           | 72520                  | 48.84                     |
| 125                     | 1.78                             | 2.7                              | 3.49                             | .066        | 2.5        | 35           | 72530                  | 48.84                     |
| 100                     | 1.99                             | 3.03                             | 3.9                              | .053        | 2.7        | 35           | 72540                  | 48.84                     |
| 75                      | 2.3                              | 3.5                              | 4.5                              | .040        | 3.1        | 35           | 72550                  | 48.84                     |
| 50                      | 2.8                              | 4.3                              | 5.5                              | .027        | 4.0        | 35           | 72560                  | 48.84                     |
| 25                      | 3.98                             | 6.06                             | 7.79                             | .014        | 4.5        | 35           | 72570                  | 48.84                     |
| 15                      | 5.14                             | 7.82                             | 10                               | .007        | 5.1        | 35           | 72580                  | 48.84                     |

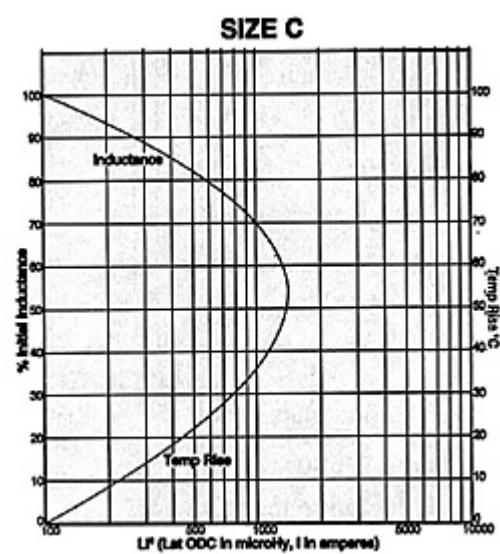
\*\*\*Discount Prices: 1-9 Net; 10-24 less 10%; 25-49 less 16%,  
50-99 less 23%; 100-499 less 30%  
Ordering Instructions: No minimum. Net 30 days  
F.O.B. Pelham, New York



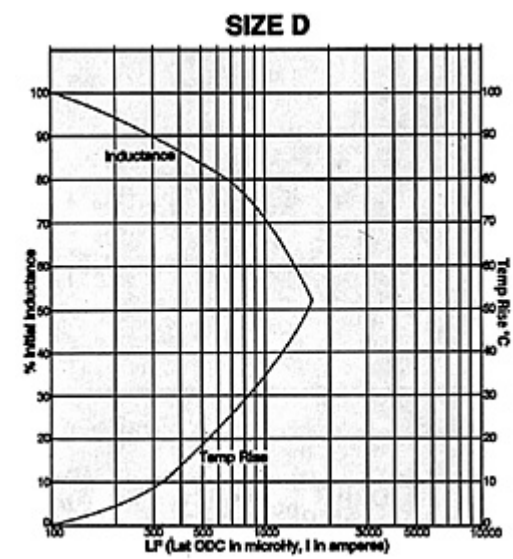
Larger Size Graph <sup>[1]</sup>



Larger Size Graph <sup>[2]</sup>



Larger Size Graph <sup>[3]</sup>



Larger Size Graph <sup>[4]</sup>

For immediate engineering assistance or to place an order: **Call Toll Free: 800-431-1064**

## PICO Electronics, Inc.

143 Sparks Ave. Pelham, NY 10803-1810  
Tel: 914-738-1400 or Fax: 914-738-8225

[Go back to Thru Hole Transformers and Inductors menu](#) <sup>[5]</sup>