

# Miller

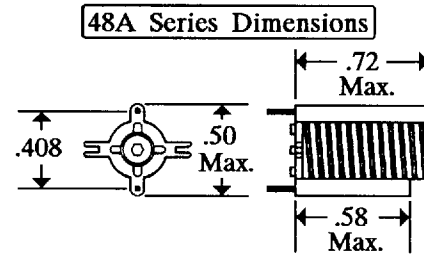
## ADJUSTABLE R F COILS

### 48A SERIES

| Miller Number | L $\mu$ H |      |      | Q Min. | Max. I, dc Amps | No. Turns |
|---------------|-----------|------|------|--------|-----------------|-----------|
|               | Min.      | Nom. | Max. |        |                 |           |
| 48A518MPC     | .046      | .051 | .055 | 100    | 2               | 1-1/2     |
| 48A778MPC     | .071      | .077 | .082 | 100    | 2               | 2-1/2     |
| 48A117MPC     | .099      | .111 | .122 | 100    | 2               | 3-1/2     |
| 48A147MPC     | .118      | .138 | .157 | 100    | 2               | 4-1/2     |
| 48A187MPC     | .15       | .179 | .207 | 100    | 2               | 5-1/2     |
| 48A227MPC     | .181      | .215 | .278 | 100    | 2               | 6-1/2     |
| 48A257MPC     | .209      | .246 | .283 | 100    | 2               | 7-1/2     |
| 48A287MPC     | .241      | .284 | .316 | 100    | 2               | 8-1/2     |
| 48A317MPC     | .27       | .311 | .351 | 100    | 2               | 9-1/2     |

Frequency range 30 - 250 MHz  
 Wire size AWG 20 TCW  
 Core 10-32 x 3/8 Carbonyl J  
 May easily be tapped at 1/8, 1/4, 3/8, 5/8, 3/4 or 7/8 turn if desired.

These coils have unsurpassed stability and uniformity of electrical parameters. A plastic form of polypropylene is molded around an accurately positioned winding.

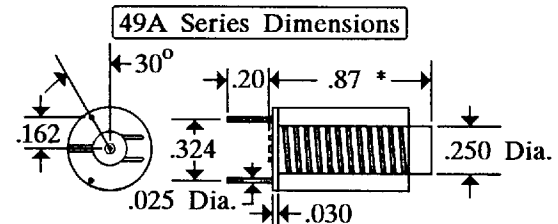


### 49A SERIES

| Miller Number | L $\mu$ H |      |      | Q Min. | Max. I, dc Amps | No. Turns |
|---------------|-----------|------|------|--------|-----------------|-----------|
|               | Min.      | Nom. | Max. |        |                 |           |
| 49A678MPC     | .06       | .067 | .074 | 100    | 1.5             | 2-1/3     |
| 49A127MPC     | .1        | .116 | .132 | 100    | 1.5             | 3-1/3     |
| 49A167MPC     | .134      | .164 | .194 | 100    | 1.5             | 4-1/3     |
| 49A217MPC     | .17       | .214 | .258 | 100    | 1.5             | 5-1/3     |
| 49A347MPC     | .25       | .338 | .415 | 100    | 1.5             | 7-1/3     |
| 49A537MPC     | .393      | .525 | .657 | 70     | 1.5             | 10-1/3    |
| 49A757MPC     | .6        | .75  | .9   | 70     | 1.5             | 14-1/3    |
| 49A997MPC     | .81       | .99  | 1.16 | 70     | 1.5             | 18-1/3    |
| 49A126MPC     | .96       | 1.15 | 1.34 | 70     | 1.5             | 21-1/3    |
| 49A146MPC     | 1.18      | 1.36 | 1.53 | 70     | 1.5             | 24-1/3    |

Frequency range 10 - 250 MHz  
 Wire size AWG 22 polyurethane coated, with tinned leads.  
 OD at base = .46". Coil OD = .285"  
 Core = 10-32 x 3/8 Carbonyl J.

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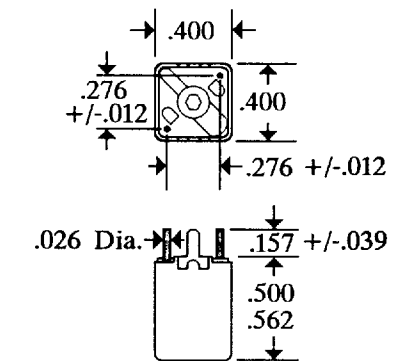
\* Except 49A146MPC = 1.09

### 4900 SERIES

| Miller Number | L $\mu$ H |      | Test Freq. MHz | Q             |               | Test Freq. MHz | Shielding  |
|---------------|-----------|------|----------------|---------------|---------------|----------------|------------|
|               | Min.      | Max. |                | Min. @ L Min. | Max. @ L Max. |                |            |
| 4901-S        | .037      | .039 | 80             | 85            | 80            | 80             | Shielded   |
| 4902-S        | .059      | .071 | 75             | 95            | 75            | 75             | Shielded   |
| 4903-S        | .086      | .107 | 75             | 90            | 75            | 75             | Shielded   |
| 4904-S        | .117      | .159 | 50             | 90            | 50            | 50             | Shielded   |
| 4905-S        | .150      | .208 | 45             | 80            | 45            | 45             | Shielded   |
| 4906-S        | .184      | .262 | 45             | 70            | 45            | 45             | Shielded   |
| 4907-S        | .226      | .311 | 45             | 65            | 45            | 45             | Shielded   |
| 4908-S        | .258      | .363 | 45             | 60            | 45            | 45             | Shielded   |
| 4909-S        | .296      | .417 | 45             | 55            | 45            | 45             | Shielded   |
| 4910-S        | .335      | .454 | 45             | 50            | 45            | 45             | Shielded   |
| 4901          | .041      | .050 | 80             | 136           | 80            | 80             | Unshielded |
| 4902          | .070      | .100 | 75             | 139           | 75            | 75             | Unshielded |
| 4903          | .103      | .152 | 75             | 133           | 75            | 75             | Unshielded |
| 4904          | .148      | .252 | 50             | 162           | 50            | 50             | Unshielded |
| 4905          | .193      | .337 | 45             | 142           | 45            | 45             | Unshielded |
| 4906          | .238      | .417 | 45             | 122           | 45            | 45             | Unshielded |
| 4907          | .286      | .508 | 45             | 105           | 45            | 45             | Unshielded |
| 4908          | .339      | .600 | 45             | 89            | 45            | 45             | Unshielded |
| 4909          | .390      | .691 | 45             | 76            | 45            | 45             | Unshielded |
| 4910          | .460      | .788 | 45             | 72            | 45            | 45             | Unshielded |

Minimum inductance measured with core removed.

### 4900 Series Dimensions



### PC Board Layout

