



**CTS**  
**TUSONIX**<sup>®</sup>



*Ceramic EMI/RFI  
Components*



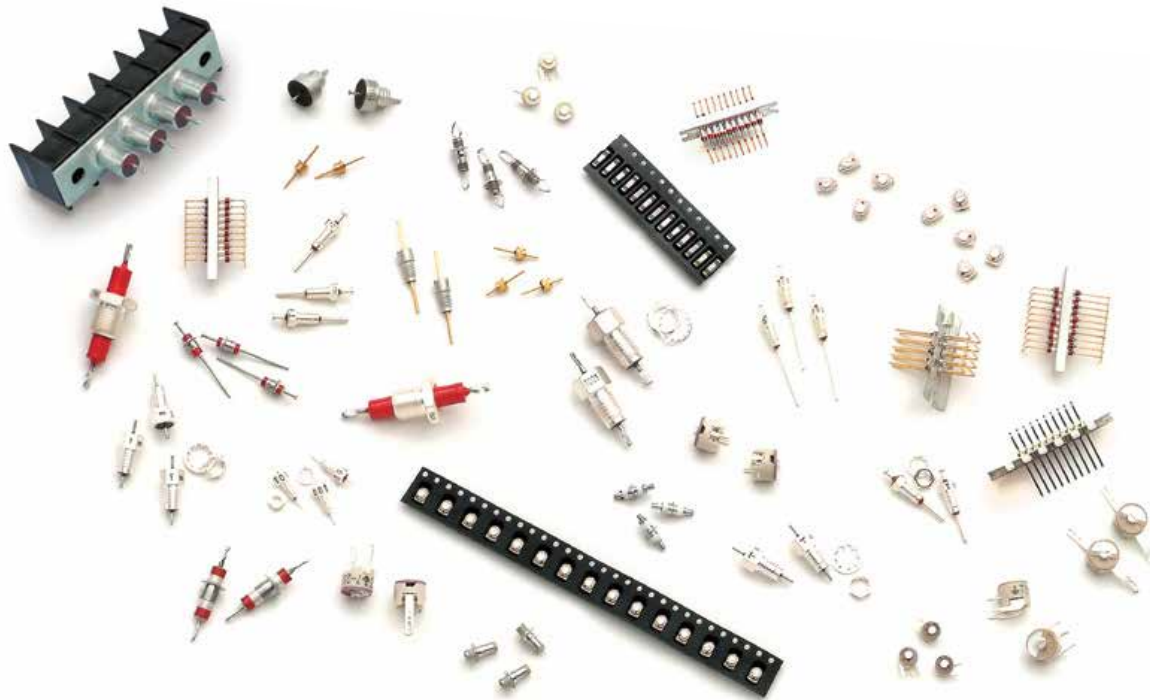
**SHORT FORM  
CATALOG**

**CTS TUSONIX Capabilities**

**C**TS TUSONIX manufactures thousands of EMC Products and features an extensive line of EMI/RFI Filters and Capacitors. We combine Technology, Expertise, Versatility and Innovation to produce the industry's most complete line of ceramic EMI/RFI Filters. CTS TUSONIX draws upon its 50 plus years of manufacturing expertise and an accumulated base of ceramic dielectric technology to provide an ever expanding line of EMI/RFI Filters and Capacitors. These products not only set the industry standard, but lead the way in the development of tomorrow's EMI Technology.

**CTS TUSONIX Quality**

The CTS TUSONIX Quality Management System assures complete customer satisfaction. A fully equipped and approved Quality and Reliability Assurance Laboratory continually monitors product design and manufacturing integrity through its periodic Conformance Test Program. CTS TUSONIX also requires MIL testing for those products approved to MIL-PRF-81, MIL-C-11015 and MIL-PRF-15733.



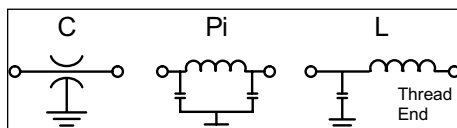
**Meeting Customer Requirements**

CTS TUSONIX is devoted to bringing the company's broad product line to an ever expanding world market. CTS TUSONIX has the manufacturing experience and sophisticated equipment to provide customers full value for the products they purchase at competitive prices. CTS TUSONIX is ISO 9001-2008, UL Standard 1283 and 1059, and C-TPAT certified.

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**Circuits Available from CTS TUSONIX**

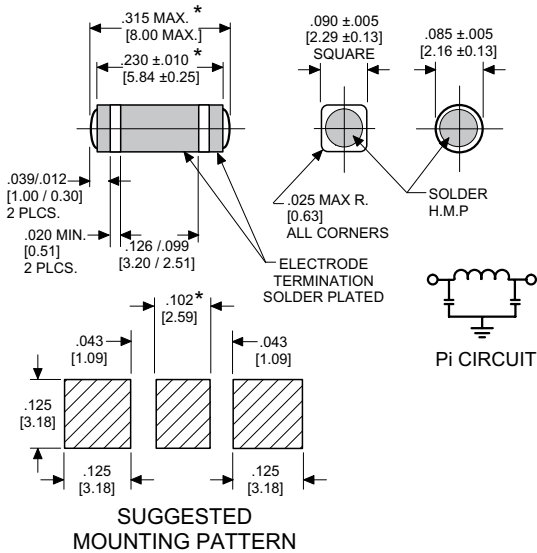


The products listed in this catalog are only a few of the thousands of variations that CTS TUSONIX produces. For custom applications, please contact the factory.



## Surface Mount Filters / Solder Mount Filters

### 4700 Series Surface Mount EMI Pi Filter



| Part No.             | WVDC |       | Cap. (pF) | Cap. Tol. | Typical No Load Insertion Loss dB @ 25°C per MIL-STD-220 |        |      |
|----------------------|------|-------|-----------|-----------|--|--------|------|
|                      | 85°C | 125°C |           |           | 10MHz  | 100MHz | 1GHz |
| <b>Square Filter</b> |      |       |           |           |  |        |      |
| 4700-006             | 100  | 100   | 100       | +80-20%   | —  | 3      | 16   |
| 4700-009             | 100  | 100   | 470       | +80-20%   | 1  | 16     | 40   |
| 4700-005             | 100  | 100   | 1,000     | GMV       | 7  | 40     | 65   |
| 4700-003             | 100  | 100   | 2,000     | GMV       | 10   | 45     | 70   |
| 4700-008             | 100  | —     | 4,000     | +80-20%   | 13   | 52     | 70   |
| 4701-002●            | 100  | —     | 6,800     | +80-20%   | 16   | 60     | 70   |
| 4701-001●            | 100  | —     | 8,200     | +80-20%   | 20   | 65     | 70   |
| <b>Round Filter</b>  |      |       |           |           |  |        |      |
| 4700-059             | 100  | 100   | 100       | +80-20%   | —  | 3      | 16   |
| 4700-058             | 100  | 100   | 1,000     | GMV       | 7  | 40     | 65   |
| 4700-053             | 100  | 100   | 2,000     | GMV       | 10   | 45     | 70   |
| 4700-053             | 100  | —     | 5,000     | +80-20%   | 15   | 55     | 70   |

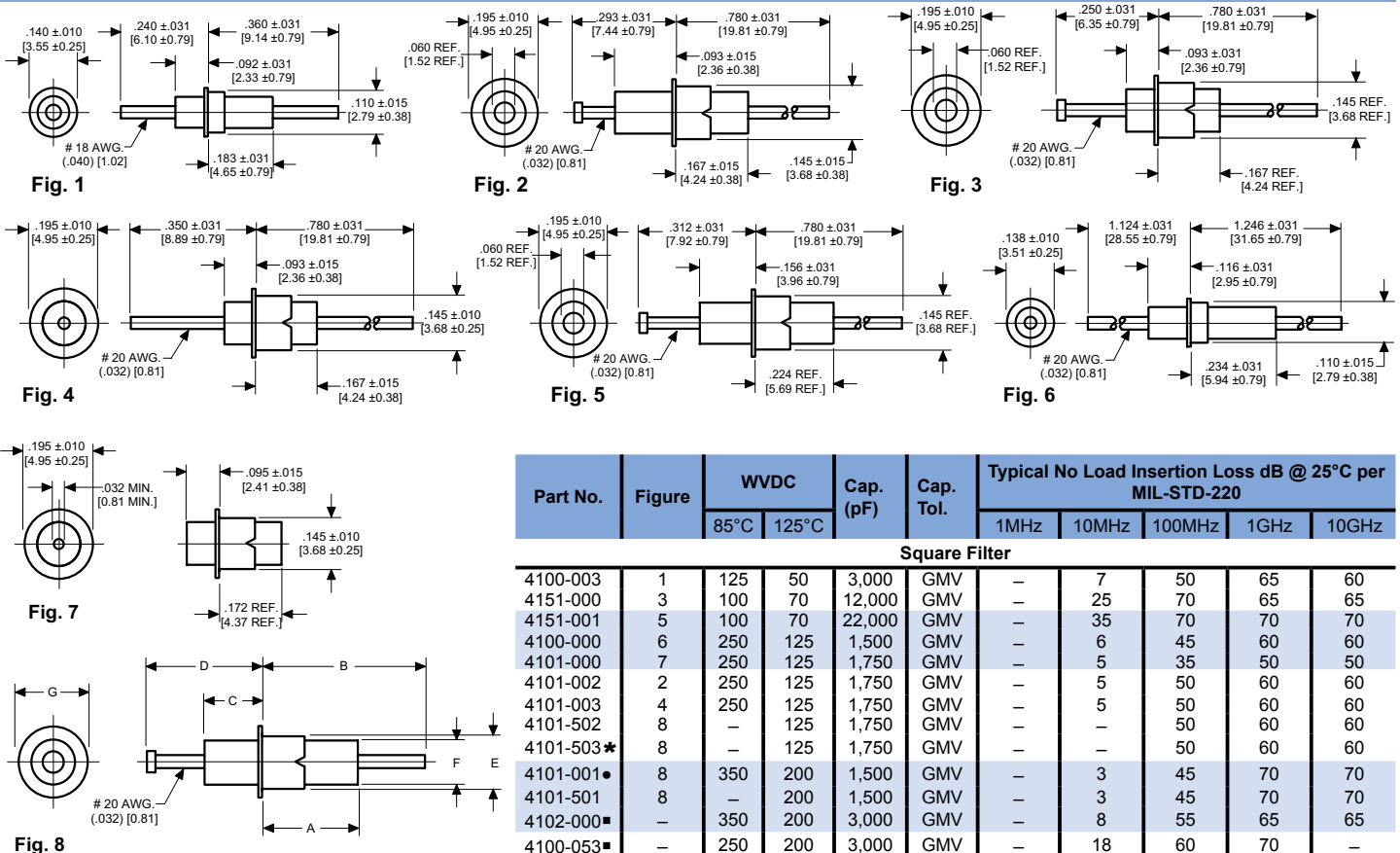
Additional Capacitance Values and Mounting Patterns are available upon request. Packaging is tape and reeled on a 16.00 mm tape.

●4701 variation has a body length of  $0.336 \pm 0.010$  [8.53 ± 0.25] and a MAX. overall length of  $0.394$  [10] and  $0.202$  [5.13] length for the center rectangle of the mounting configuration. All other part dimensions are as shown.

GMV = Guaranteed Minimum Value

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### Solder Mount EMI Pi Filters



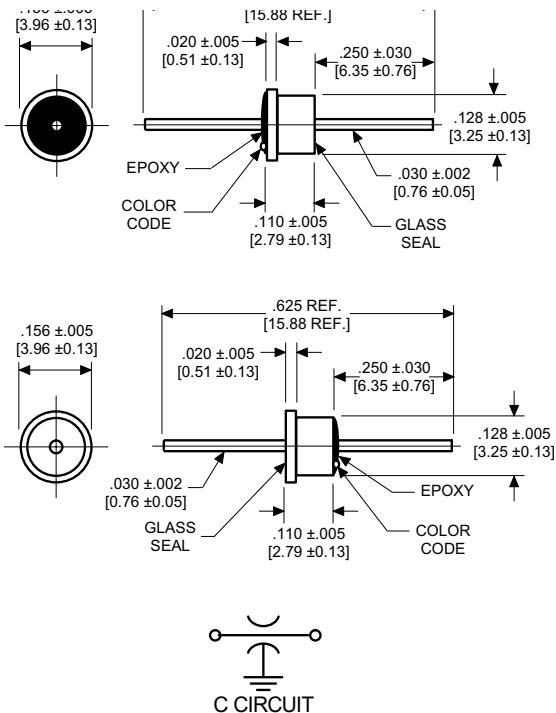
| Part No.             | Figure | WVDC |       | Cap. (pF) | Cap. Tol. | Typical No Load Insertion Loss dB @ 25°C per MIL-STD-220 |       |        |      |       |
|----------------------|--------|------|-------|-----------|-----------|--|-------|--------|------|-------|
|                      |        | 85°C | 125°C |           |           | 1MHz   | 10MHz | 100MHz | 1GHz | 10GHz |
| <b>Square Filter</b> |        |      |       |           |           |  |       |        |      |       |
| 4100-003             | 1      | 125  | 50    | 3,000     | GMV       | —  | 7     | 50     | 65   | 60    |
| 4151-000             | 3      | 100  | 70    | 12,000    | GMV       | —  | 25    | 70     | 65   | 65    |
| 4151-001             | 5      | 100  | 70    | 22,000    | GMV       | —  | 35    | 70     | 70   | 70    |
| 4100-000             | 6      | 250  | 125   | 1,500     | GMV       | —  | 6     | 45     | 60   | 60    |
| 4101-000             | 7      | 250  | 125   | 1,750     | GMV       | —  | 5     | 35     | 50   | 50    |
| 4101-002             | 2      | 250  | 125   | 1,750     | GMV       | —  | 5     | 50     | 60   | 60    |
| 4101-003             | 4      | 250  | 125   | 1,750     | GMV       | —  | 5     | 50     | 60   | 60    |
| 4101-502             | 8      | —    | 125   | 1,750     | GMV       | —  | —     | 50     | 60   | 60    |
| 4101-503*            | 8      | —    | 125   | 1,750     | GMV       | —  | —     | 50     | 60   | 60    |
| 4101-001●            | 8      | 350  | 200   | 1,500     | GMV       | —  | 3     | 45     | 70   | 70    |
| 4101-501             | 8      | —    | 200   | 1,500     | GMV       | —  | 3     | 45     | 70   | 70    |
| 4102-000■            | —      | 350  | 200   | 3,000     | GMV       | —  | 8     | 55     | 65   | 65    |
| 4100-053■            | —      | 250  | 200   | 3,000     | GMV       | —  | 18    | 60     | 70   | —     |

\* MIL part number /33-0002 has a straight lead  
 ● Same dimensions as /62-0001  
 ■ Diagram not available  
 Reference Sample Kit # SK4000-903

| MIL-PRF-15733 | Figure | Part No. | Dim. A        | Dim. B         | Dim. C        | Dim. D        | Dim. E        | Dim. F        | Dim. G        |
|---------------|--------|----------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| /33-0001      | 8      | 4101-502 | 0.17 ± .027   | 0.78 ± 0.031   | 0.093 ± 0.015 | 0.288 ± 0.015 | —             | 0.125 MAX     | 0.19 ± 0.015  |
| /33-0002*     |        | 4101-503 | [4.32 ± 0.69] | [19.81 ± 0.79] | [2.36 ± 0.38] | [7.32 ± 0.38] | —             | [3.18 MAX]    | [4.83 ± 0.38] |
| /62-0001      | 8      | 4101-501 | 0.25 ± 0.031  | 0.406 ± 0.031  | 0.156 ± 0.031 | 0.312 ± 0.031 | 0.145 ± .015  | 0.125 ± 0.015 | 0.19 ± 0.015  |
|               |        |          | [6.35 ± 0.79] | [10.31 ± 0.79] | [3.96 ± 0.79] | [7.92 ± 0.79] | [3.68 ± 0.38] | [3.18 ± 0.38] | [4.83 ± 0.38] |

## Miniature EMI Filters

### 4300 Series Miniature EMI Filter



CTS TUSONIX 4300 Series Miniature EMI Filters are ideal for applications where small size and high performance are critical. These C configured filters can be glass sealed on either one of the ends for optimal sealing between system compartments or components. The gold plating on the leads offers excellent conductivity and connective ability using common gold bonding methods. The small package and large range of electrical characteristics of the 4300 Series make it an effective solution for a variety of microwave applications.

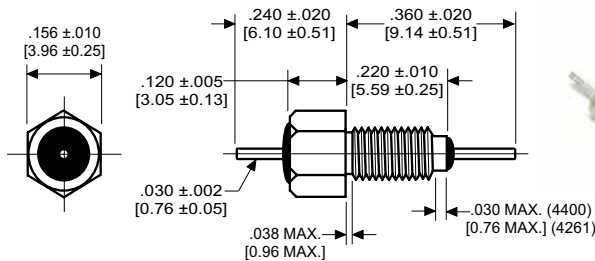
**Please Note:** CTS TUSONIX can also supply the 4302 Series, which is epoxy sealed at both ends.

Reference Sample Kit # SK4000-903

| Part No.  | WVDC |       | Cap. (pF) | Cap. Tol. | Typical No Load Insertion Loss dB @ 25°C per MIL-STD-220 |       |        |      |       |
|---|------|-------|-----------|-----------|--|-------|--------|------|-------|
|   | 85°C | 125°C |           |           | 1MHz   | 10MHz | 100MHz | 1GHz | 10GHz |
| <b>Epoxy Sealed Top (flange)/ Glass Sealed Bottom</b> |      |       |           |           |  |       |        |      |       |
| 4300-006  | 70   | 50    | 15,000    | GMV       | 7  | 20    | 35     | 55   | 55    |
| 4300-003  | 150  | 100   | 2,700     | GMV       | –  | 10    | 25     | 40   | 50    |
| 4300-004  | 150  | 100   | 5,000     | GMV       | –  | 15    | 30     | 45   | 55    |
| 4300-680  | 300  | 200   | 5         | MAX       | –  | –     | –      | –    | –     |
| 4300-000  | 300  | 200   | 100       | GMV       | –  | –     | 3      | 20   | 28    |
| 4300-001  | 300  | 200   | 500       | GMV       | –  | –     | 15     | 35   | 40    |
| 4300-002  | 300  | 200   | 1,200     | GMV       | –  | 5     | 20     | 35   | 45    |
| <b>Glass Sealed Top (flange)/ Epoxy Sealed Bottom</b> |      |       |           |           |  |       |        |      |       |
| 4300-023  | 150  | 100   | 2,700     | GMV       | –  | 10    | 25     | 40   | 50    |
| 4300-024  | 150  | 100   | 5,000     | GMV       | –  | 15    | 30     | 45   | 55    |
| 4300-681  | 300  | 200   | 5         | MAX       | –  | –     | –      | –    | –     |
| 4300-020  | 300  | 200   | 100       | GMV       | –  | –     | 3      | 20   | 28    |
| 4300-021  | 300  | 200   | 500       | GMV       | –  | –     | 15     | 35   | 40    |
| 4300-022  | 300  | 200   | 1,200     | GMV       | –  | 5     | 20     | 35   | 45    |

GMV = Guaranteed Minimum Value

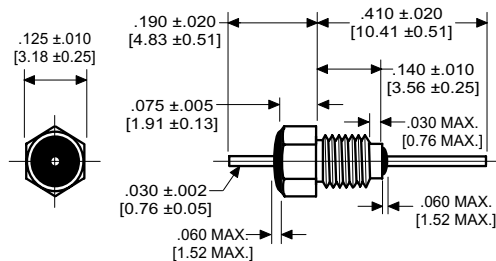
### 4400 Series Miniature EMI Bushing Mount Filter



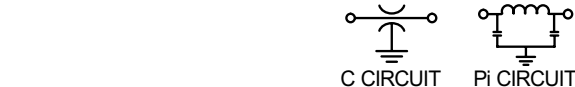
CTS TUSONIX 4400 Series Miniature EMI Filters are ideal for applications where small size and high performance are critical and a threaded mounting technique is desired. These C and L configured filters are available in two physical configurations and can be supplied with either unified or metric thread (see page 5 for metric.) The small package and large range of electrical characteristics of the 4400 Series make it an effective solution for a variety of microwave applications.

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#### # 4- 40 UNC - 2A Thread Standard Bushing



#### # 4- 40 UNC - 2A Thread Miniature Bushing



**Please Note:** CTS TUSONIX also produces many of the variations above in an L circuit.

Reference Sample Kit # SK4000-901

| Part No.   | WVDC |       | Cap. (pF) | Cap. Tol. | Typical No Load Insertion Loss dB @ 25°C per MIL-STD-220 |       |        |      |       |
|--|------|-------|-----------|-----------|--|-------|--------|------|-------|
|  | 85°C | 125°C |           |           | 1MHz   | 10MHz | 100MHz | 1GHz | 10GHz |
| <b>#4-40 UNC-2A Thread Standard Bushing, C Configuration</b> |      |       |           |           |  |       |        |      |       |
| 4400-016*  | 50   | 50    | 50,000    | GMV       | 15   | 35    | 45     | 70   | –     |
| 4400-033   | 150  | 100   | 2,700     | GMV       | –  | 10    | 25     | 40   | 50    |
| 4400-034   | 150  | 100   | 5,000     | GMV       | –  | 15    | 30     | 45   | 55    |
| 4400-030   | 300  | 200   | 100       | GMV       | –  | –     | 3      | 20   | 28    |
| 4400-031   | 300  | 200   | 500       | GMV       | –  | –     | 15     | 35   | 40    |
| 4400-037   | 300  | 200   | 1,000     | GMV       | –  | 5     | 20     | 35   | 45    |
| 4400-032   | 300  | 200   | 1,200     | GMV       | –  | 5     | 20     | 35   | 45    |
| <b>#4-40 UNC-2A Miniature Bushing, C Configuration</b>       |      |       |           |           |  |       |        |      |       |
| 4403-033   | 150  | 100   | 2,700     | GMV       | –  | 10    | 25     | 40   | 50    |
| 4403-034   | 150  | 100   | 5,000     | GMV       | –  | 15    | 30     | 45   | 55    |
| 4403-030   | 300  | 200   | 100       | GMV       | –  | –     | 3      | 20   | 28    |
| 4403-031   | 300  | 200   | 500       | GMV       | –  | –     | 15     | 35   | 40    |
| 4403-037   | 300  | 200   | 1,000     | GMV       | –  | 5     | 20     | 35   | 45    |
| 4403-032   | 300  | 200   | 1,200     | GMV       | –  | 5     | 20     | 35   | 45    |
| <b>#4-40 UNC-2A Thread Pi Configuration</b>                  |      |       |           |           |  |       |        |      |       |
| 4261-001■  | –    | 50    | 5,500     | GMV       | –  | 14    | 55     | 70   | –     |

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## Bushing Mount EMI Filters

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### #8-32 Thread Bushing Mount Filters

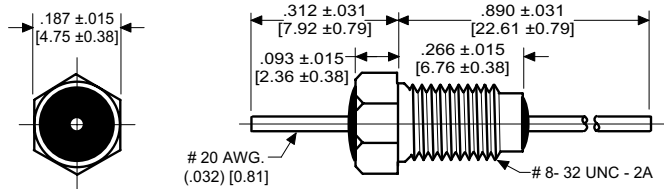


Fig. 1

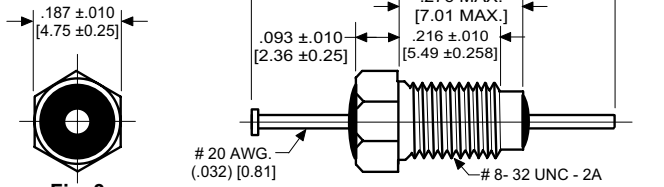


Fig. 3

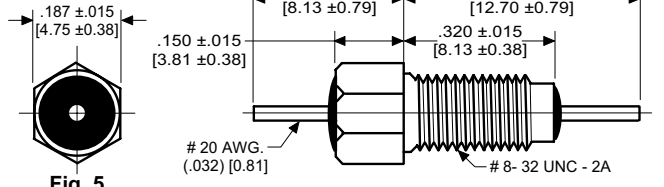


Fig. 5

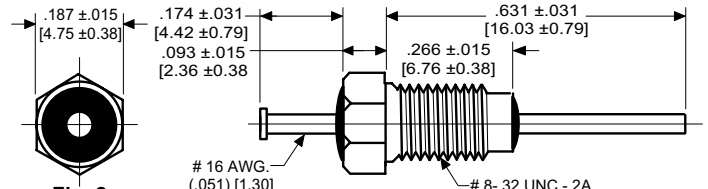


Fig. 2

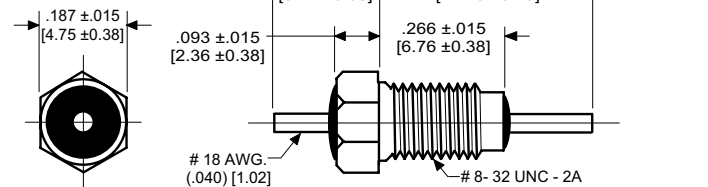


Fig. 4

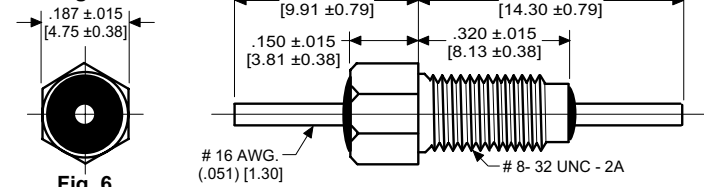


Fig. 6

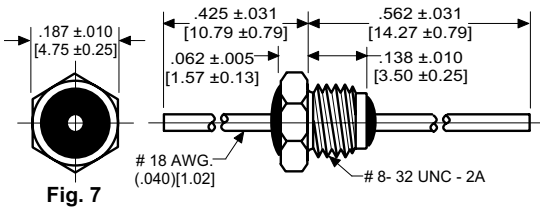


Fig. 7

### Reference Sample Kit # SK4000-900

- ◆ Turret Lead
- 0.18 AWG 0.040 [1.02] Lead
- \* Insertion loss values are typical

GMV = Guaranteed Minimum Value

| Part No.                                    | Fig. | WVDC |       | Cap. (pF) | Cap. Tol. | Minimum No Load Insertion Loss dB @ 25°C per MIL-STD-220 |       |        |      |       |
|---|------|------|-------|-----------|-----------|--|-------|--------|------|-------|
|   |      | 85°C | 125°C |           |           | 1MHz   | 10MHz | 100MHz | 1GHz | 10GHz |
| <b>#8-32 UNC-2A Thread Pi Configuration</b> |      |      |       |           |           |  |       |        |      |       |
| 4251-004                                    | 5    | 100  | 100   | 28,000    | GMV       | 10   | 38    | 75     | 75   | 75    |
| 4251-000                                    | 4    | 185  | 125   | 3,000     | +100-0%   | -  | 10    | 30     | 65   | 65    |
| 4201-502                                    | 3    | -    | 100   | 1,000     | GMV       | -  | -     | 65     | 70   | 70    |
| 4201-000                                    | 1    | 200  | 100   | 1,500     | GMV       | -  | 55    | 45     | 65   | 70    |
| 4201-001◆                                   | 1    | 200  | 100   | 1,500     | GMV       | -  | -     | 45     | 65   | 70    |
| 4201-501◆                                   | 1    | -    | 100   | 2,500     | GMV       | -  | 14    | 45     | 60   | 60    |
| 4201-050                                    | 1    | 200  | 100   | 5,500     | GMV       | -  | 14    | 55     | 70   | 70    |
| 4201-051◆                                   | 1    | 200  | 100   | 5,500     | GMV       | -  | 14    | 55     | 70   | 70    |
| 4201-053◆■                                  | 1    | 200  | 100   | 5,500     | GMV       | -  | 5     | 55     | 65   | 65    |
| 4205-001                                    | 7    | 250  | 125   | 1,500     | GMV       | -  | 5     | 35     | 60   | 60    |
| <b>#8-32 UNC-2A Thread C Configuration</b>  |      |      |       |           |           |  |       |        |      |       |
| 2425-018-X5U0-102P*                         | 2    | 200  | 100   | 1,000     | +100-0%   | -  | 3     | 20     | 35   | 40    |
| 2425-601-X5W0-103Z*                         | 6    | 200  | 100   | 10,000    | +80-20%   | -  | 20    | 35     | 50   | 55    |

### #12-28 Thread Feed-Through Capacitors

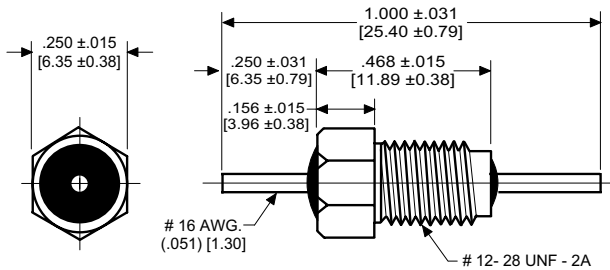


Fig. 1

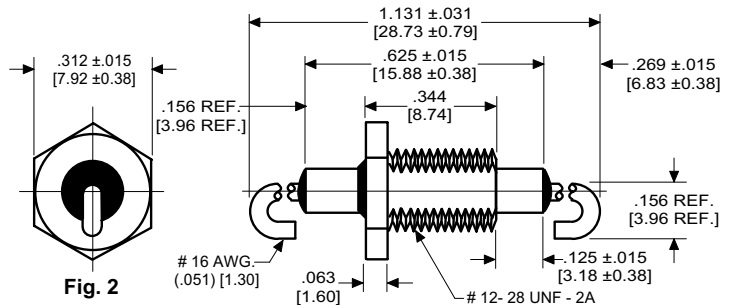


Fig. 2

### Reference Sample Kit # SK2000-900

| Part No.                             | Fig. | WVDC |       | Cap. (pF) | Cap. Tol. | Minimum No Load Insertion Loss dB @ 25°C per MIL-STD-220 |        |      |       |
|--------------------------------------|------|------|-------|-----------|-----------|--|--------|------|-------|
|                                      |      | 85°C | 125°C |           |           | 10MHz  | 100MHz | 1GHz | 10GHz |
| <b>#12-28 Thread C Configuration</b> |      |      |       |           |           |  |        |      |       |
| 2499-003-X5U0-102P                   | 1    | 500  | 250   | 1,000     | +100-0%   | 3  | 20     | 35   | 40    |
| 2499-003-X5W0-502P                   | 1    | 500  | 250   | 5,000     | +100-0%   | 15   | 30     | 45   | 50    |
| 2499-003-X5W0-103Z                   | 1    | 500  | 250   | 10,000    | +80-20%   | 20   | 35     | 50   | 55    |
| 0357-001-X5W0-103Z                   | 2    | 500  | 250   | 10,000    | +80-20%   | 20   | 35     | 50   | 55    |

## Bushing Mount EMI/RFI Filters *continued*

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### #12-32 and 5/16-32 Thread Bushing Mount Filters

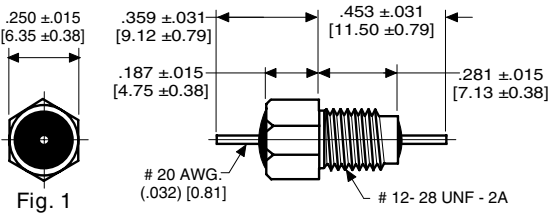


Fig. 1

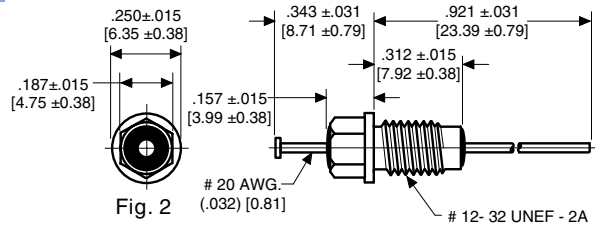


Fig. 2

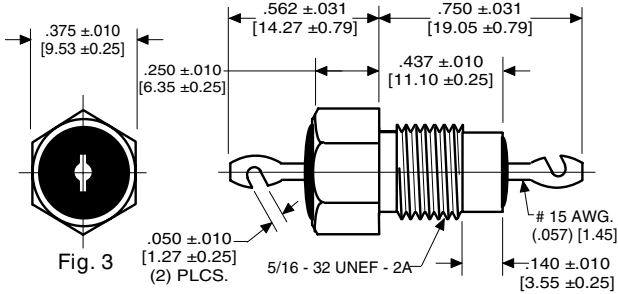


Fig. 3

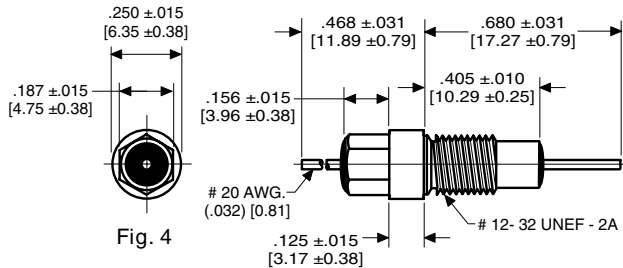


Fig. 4

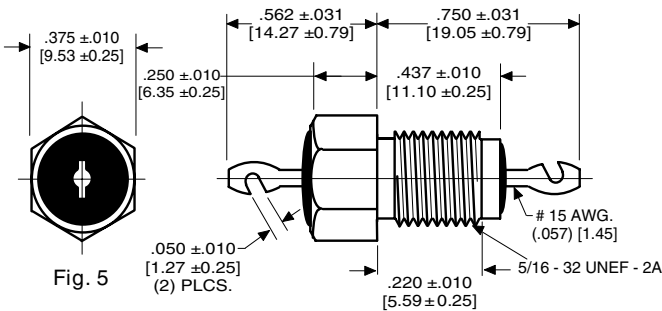


Fig. 5

\* 5/16-24 UNF - 2A

Reference Sample Kit # SK4000-902

| Part No.                                | Fig. | WVDC |       | Cap. (pF) | Cap. Tol. | Minimum No Load Insertion Loss dB @ 25°C per MIL-STD-220 |        |      |       |
|---|------|------|-------|-----------|-----------|--|--------|------|-------|
|   |      | 85°C | 125°C |           |           | 10MHz  | 100MHz | 1GHz | 10GHz |
| <b>#12-32 Thread Pi Configuration</b>   |      |      |       |           |           |  |        |      |       |
| 4253-002                                | 4    | 100  | 70    | 50,000    | GMV       | 15   | 60     | 75   | 75    |
| 4202-050                                | 1    | 200  | 100   | 5,000     | GMV       | -  | 20     | 65   | 70    |
| 4203-053                                | 2    | 200  | 100   | 5,000     | GMV       | -  | 20     | 65   | 70    |
| 4202-000                                | 1    | 350  | 200   | 1,500     | GMV       | -  | 555    | 45   | 70    |
| 4203-003                                | 2    | 350  | 200   | 1,500     | GMV       | -  | 14     | 45   | 70    |
| 4202-004                                | 1    | 500  | 350   | 2,500     | GMV       | -  | 5      | 50   | 70    |
| 4203-552                                | 2    | -    | 100   | 5,000     | GMV       | -  | -      | 65   | 70    |
| <b>5/16"-32 Thread Pi Configuration</b> |      |      |       |           |           |  |        |      |       |
| 4206-501                                | 3    | -    | 500   | 2,000     | GMV       | -  | -      | 55   | 70    |
| 4206-502*                               | 3    | -    | 500   | 2,000     | GMV       | -  | -      | 55   | 70    |
| 4206-006                                | 5    | 1000 | 500   | 3,000     | GMV       | -  | 10     | 55   | 70    |

GMV = Guaranteed Minimum Value

### Metric Bushing Filters

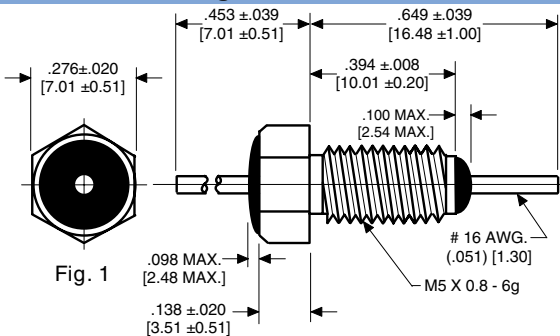


Fig. 1

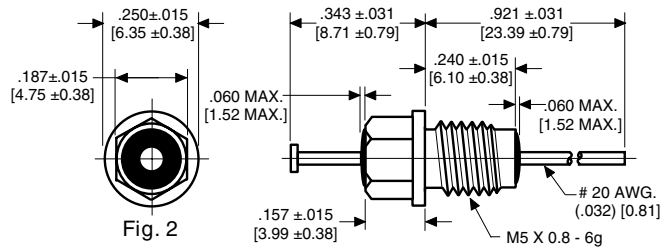


Fig. 2

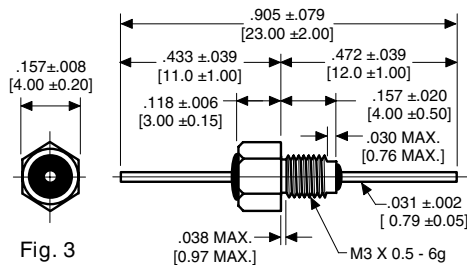


Fig. 3

| Part No.                          | Fig. | WVDC |       | Cap. (pF) | Cap. Tol. | Minimum No Load Insertion Loss dB @ 25°C per MIL-STD-220 |       |        |      |       |
|-----------------------------------|------|------|-------|-----------|-----------|--|-------|--------|------|-------|
|                                   |      | 85°C | 125°C |           |           | 1MHz   | 10MHz | 100MHz | 1GHz | 10GHz |
| <b>M3 Thread C Configuration</b>  |      |      |       |           |           |  |       |        |      |       |
| 4400-099                          | 3    | 50   | 50    | 50,000    | GMV       | 15   | 35    | 45     | 70   | -     |
| 4400-093                          | 3    | 70   | 50    | 10,000    | GMV       | 4  | 21    | 35     | 50   | 60    |
| 4400-098                          | 3    | 70   | 50    | 27,000    | GMV       | 10   | 28    | 42     | 65   | 65    |
| 4400-097                          | 3    | 150  | 100   | 2,700     | GMV       | -  | 10    | 25     | 40   | 50    |
| 4400-094                          | 3    | 150  | 100   | 4,700     | GMV       | -  | 15    | 30     | 45   | 55    |
| 4400-683                          | 3    | 300  | 200   | 5         | MAX       | -  | -     | -      | -    | -     |
| 4400-076                          | 3    | 300  | 200   | 100       | GMV       | -  | -     | 3      | 20   | 28    |
| 4400-096                          | 3    | 300  | 200   | 470       | GMV       | -  | -     | 15     | 35   | 40    |
| 4400-095                          | 3    | 300  | 200   | 1,000     | GMV       | -  | 5     | 20     | 35   | 45    |
| <b>M5 Thread Pi Configuration</b> |      |      |       |           |           |  |       |        |      |       |
| 4209-053                          | 2    | 350  | 100   | 5500      | GMV       | -  | 20    | 65     | 70   | 70    |
| 4209-003                          | 2    | 350  | 200   | 1500      | GMV       | -  | 5     | 45     | 70   | 70    |
| <b>M5 Thread C Configuration</b>  |      |      |       |           |           |  |       |        |      |       |
| 2499-523-Y5R0-102*                | 1    | 500  | 250   | 1,000     | +100-0%   | -  | 3     | 20     | 35   | 40    |

\* Insertion loss values are typical.

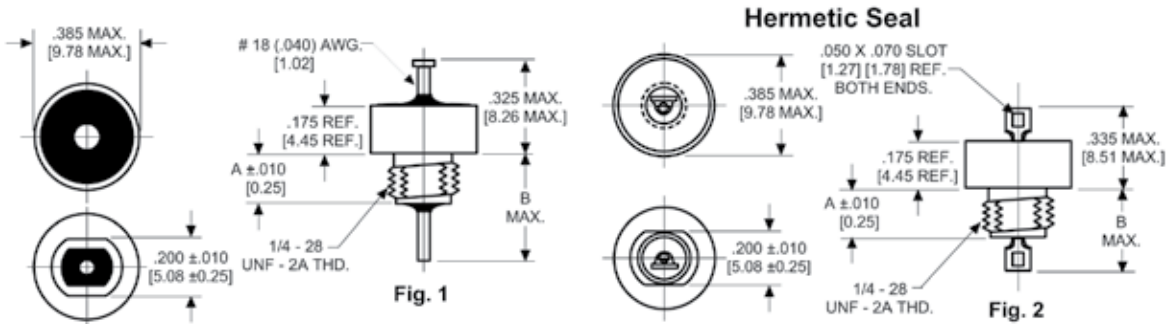
The products listed in this catalog are only a few of the thousands of variations that CTS TUSONIX produces. For custom applications, please contact the factory.



## Coaxial Broadband Filters / Coaxial Resonators

### Coaxial Broadband Filters

Download literature at <http://delivr.com/1jgif>



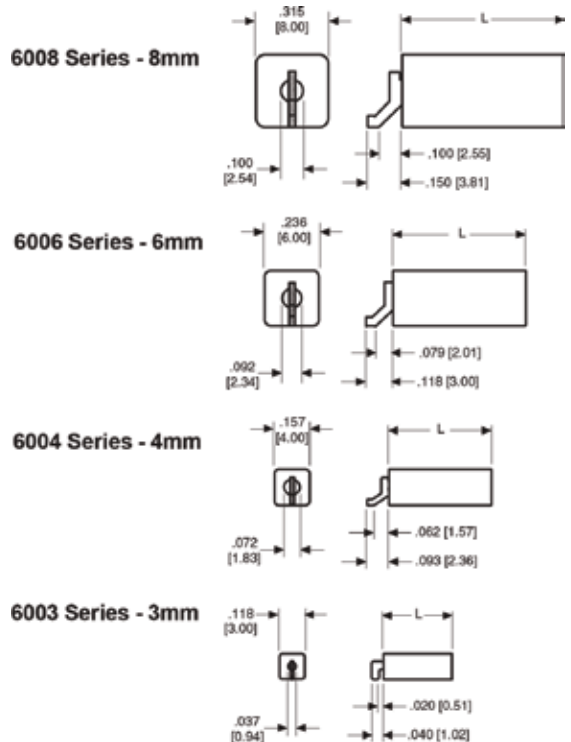
| Part No.  | Fig. | Dim. A       | Dim. B       | WVDC |       | Cap. (pF) | Minimum No Load Insertion Loss dB @ 25°C per MIL-STD-220 |        |       |      |
|---|------|--------------|--------------|------|-------|-----------|--|--------|-------|------|
|   |      |              |              | 85°C | 125°C |           | 30kHz  | 300kHz | 10MHz | 1GHz |
| <b>Coaxial Broadband Filter C Configuration</b> |      |              |              |      |       |           |  |        |       |      |
| 4600-000  | 1    | 0.187 [4.75] | 0.367 [9.32] | 100  | 70    | 1.4       | 15   | 34     | 60    | 70   |
| 4601-000  | 2    | 0.187 [4.75] | 0.35 [8.89]  | 100  | 70    | 1.4       | 15   | 34     | 60    | 70   |
| 4600-003  | 1    | 0.187 [4.75] | 0.367 [9.32] | 100  | 50    | 1.4       | 15   | 34     | 60    | 70   |
| <b>Coaxial Broadband Filter L Configuration</b> |      |              |              |      |       |           |  |        |       |      |
| 4600-050  | 1    | 0.187 [4.75] | 0.367 [9.32] | 100  | 70    | 1.4       | 15   | 34     | 60    | 70   |
| 4601-050  | 2    | 0.187 [4.75] | 0.35 [8.89]  | 100  | 70    | 1.4       | 15   | 34     | 60    | 70   |
| 4600-053  | 1    | 0.187 [4.75] | 0.367 [9.32] | 100  | 50    | 1.4       | 15   | 34     | 60    | 70   |
| 4601-055  | 2    | 0.187 [4.75] | 0.35 [8.89]  | 100  | 70    | 0.7       | 9  | 29     | 52    | 70   |
| 4600-059  | 1    | 0.187 [4.75] | 0.367 [9.32] | 280* | 200   | 0.15      | —  | 15     | 40    | 60   |
| 4601-059  | 2    | 0.187 [4.75] | 0.35 [8.89]  | 280* | 200   | 0.15      | —  | 15     | 40    | 60   |

\* 125V<sub>AC</sub> to 400Hz; DCR - 0.01Ω MAX

### Coaxial Resonators

CTS TUSONIX's Ceramic Coaxial Resonators are offered in three sizes and four dielectric constants with a frequency range from 800MHz to 5.9GHz. Please inquire about different sizes with your local sales associate.

To ensure superior performance and adequate miniaturization, these parts are made of quality metalized ceramics. CTS TUSONIX offers the best ceramic composition in order to meet all necessary temperature performance, shielding and miniaturization requirements for an endless number of applications.



#### Create A Part Number

| Coaxial Resonator | Square Tin Plated Style | Height in mm | Electrode, Fired on Silver Tin-plated over Nickel=0 | Tab, 0=no 1=Soldered 2=Unsoldered | Wave Type - Table 2 | Resonant Frequency in MHz | Dielectric Material - Table 2 | Temperature Coefficient of Resonant Frequency +10 PPM | Resonant Frequency Tolerance - +1% | Packaging Code - Tray (1) or Tape/Reel (2) |
|-------------------|-------------------------|--------------|---|-----------------------------------|---------------------|---------------------------|-------------------------------|---|------------------------------------|--|
| 6                 | 0                       | 03           | 0   | 0                                 | 2                   | 4600                      | E                             | 0   | C                                  | 1  |
|                   |                         | 04           |   | 1                                 | 4                   | 1750                      | G                             |   |                                    |  |

Part No. Example : 6003-014-1750-E0C-1

Table 1

2 - Half  
4 - Quarter

Table 2\*

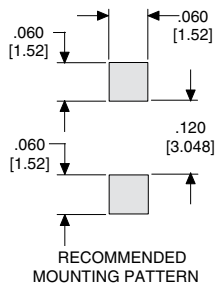
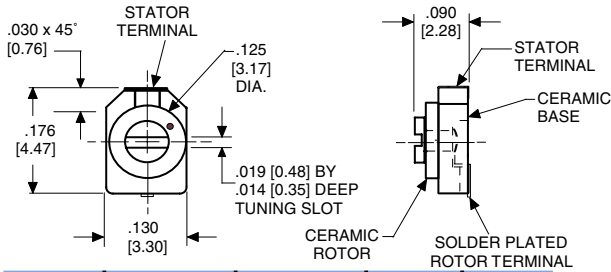
(Er)  
D 10  
E 20  
F 37  
F 85  
\*Nominal values

Download literature at <http://delivr.com/2pk4m>

Variable Trimmer Capacitors

Download literature at <http://delivr.com/2jdvc>

Extra Miniature Trimmer Capacitors - McQ512



| Part No. | Dielectric Type Code | Temp. COEF. PPM/°C | WVDC @125°C | Q Min. |
|----------|----------------------|--------------------|-------------|--------|
| 0512-000 | A                    | NPO ±200           | 100         | 750    |
| 0512-000 | A                    | NPO ±200           | 100         | 750    |
| 0512-000 | A                    | NPO ±400           | 100         | 500    |
| 0512-000 | A                    | NPO ±400           | 100         | 500    |

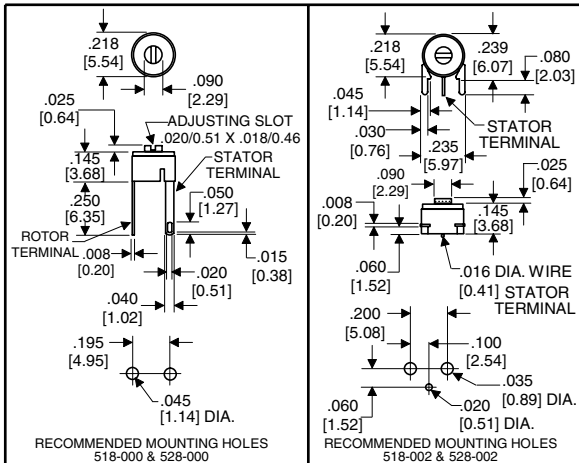


Actual Size

Please contact the factory direct for capacitance ranges.

Reference Sample Kit # SK0500-900

Miniature Trimmer Capacitors



| Part No. | MIL-PRF-81 Designation MIL CV35 CTS TUSONIX Style 518-016 | Type Code | Cap. (pF) | CTS TUSONIX Part Number | MIL-PRF-81 Designation MIL CV36 CTS TUSONIX Style 518-017 | Type Code | Cap. (pF) |
|----------|---|-----------|-----------|-------------------------|---|-----------|-----------|
|----------|---|-----------|-----------|-------------------------|---|-----------|-----------|

518 Series Trimmer - 100 WVDC @85°C

|         |          |   |        |         |          |   |        |
|---------|----------|---|--------|---------|----------|---|--------|
| 518-000 | CV35A030 | A | 1.0-3  | 518-002 | CV36A030 | A | 1.25-3 |
| 518-000 | CV35A090 | A | 2.5-9  | 518-002 | CV36A090 | A | 2.5-9  |
| 518-000 | CV35A150 | A | 5.0-15 | 518-002 | CV36A150 | A | 5.0-15 |

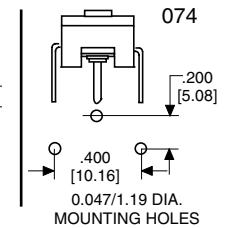
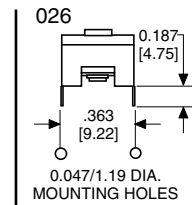
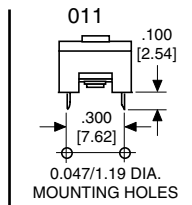
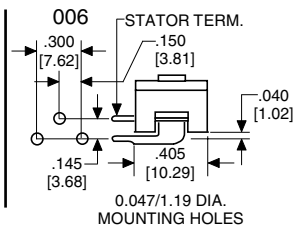
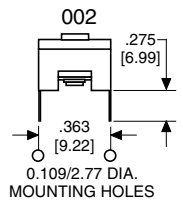
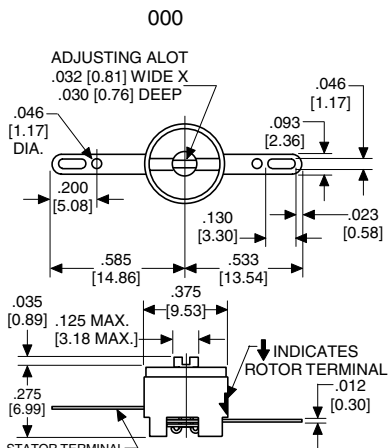
| Part No. | Dielectric Type Code | Cap. (pF) | WVDC @125°C |
|----------|----------------------|-----------|-------------|
|----------|----------------------|-----------|-------------|

528 Series Trimmer

|         |   |        |     |
|---------|---|--------|-----|
| 528-000 | A | 1-3    | 100 |
| 528-000 | A | 3-8    | 100 |
| 528-002 | A | 1.25-3 | 100 |
| 528-002 | C | 3.5-10 | 100 |



Actual Size



| MIL-PRF-81 Designation MIL CV31 CTS TUSONIX Style 538-054 | MIL-PRF-81 Designation MIL CV31 CTS TUSONIX Style 538-067 | Dielectric Type Code | Cap. (pF) | WVDC @85°C |
|---|---|----------------------|-----------|------------|
|---|---|----------------------|-----------|------------|

538 Series Trimmer

|          |          |   |           |     |
|----------|----------|---|-----------|-----|
| CV31A080 | CV32A080 | A | 2.0 - 8   | 350 |
| -        | -        | A | 3.0 - 10  | 350 |
| CV31D150 | CV32D150 | D | 3.0 - 15  | 200 |
| CV31A180 | CV32A180 | A | 5.5 - 18  | 350 |
| -        | -        | D | 5.5 - 25  | 200 |
| CV31C250 | CV32C250 | C | 8.0 - 25  | 350 |
| CV31E600 | CV32E600 | F | 15.0 - 60 | 200 |



Actual Size

Reference Sample Kit # SK0500-900

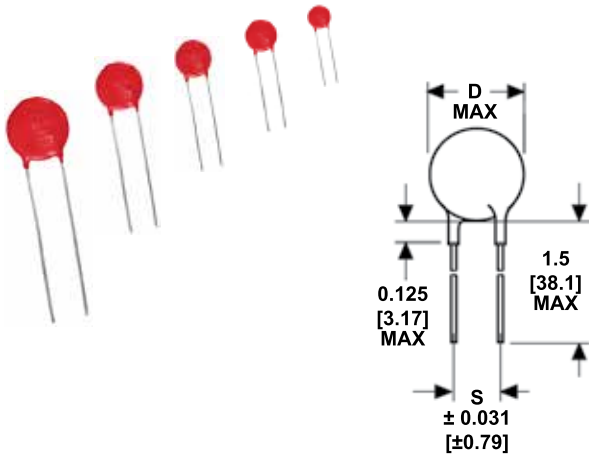


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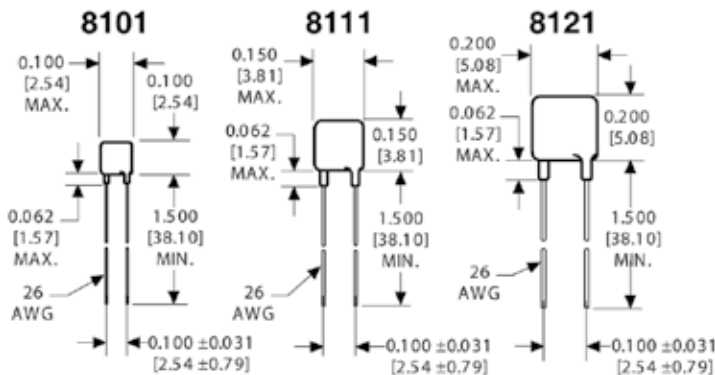
## Ceramic Disc and WEECON Capacitors

### Ceramic Disc Capacitors



| Part No.                          | MIL Number | Dimension D  | Dimension S  | Wire Gauge |
|-----------------------------------|------------|--------------|--------------|------------|
| <b>Ceramic Disc Capacitors</b>    |            |              |              |            |
| 801-000-X5F0-102K                 | —          | 0.36 [9.14]  | 0.25 [6.35]  | 22         |
| <b>MIL-C-11015 Approved Discs</b> |            |              |              |            |
| 838-040-X5U0-471M                 | CK60AW471M | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 838-040-X5U0-102M                 | CK60AW102M | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 831-040-X5U0-152M                 | CK60AW152M | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 838-040-X5R0-221K                 | CK60AX221K | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 831-040-X5R0-471K                 | CK60AX471K | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 838-040-X7R0-150K                 | CK60BX150K | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 838-040-X7R0-470K                 | CK60BX470K | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 838-040-X7R0-101K                 | CK60BX101K | 0.28 [7.11]  | 0.25 [6.35]  | 22         |
| 801-040-X5U0-222M                 | CK61AW222M | 0.35 [8.89]  | 0.25 [6.35]  | 22         |
| 811-040-X5U0-682M                 | CK62AW682M | 0.55 [13.97] | 0.375 [9.52] | 22         |
| 811-040-X7R0-102K                 | CK62BX102K | 0.55 [13.97] | 0.375 [9.52] | 22         |
| 841-040-X5U0-103M                 | CK63AW103M | 0.66 [16.76] | 0.375 [9.52] | 20         |
| 848-040-X5U0-472M                 | CK63AW472M | 0.66 [16.76] | 0.375 [9.52] | 20         |
| 848-040-X5U0-103M                 | CK63AY103M | 0.66 [16.76] | 0.375 [9.52] | 20         |

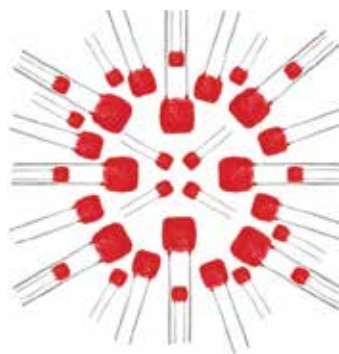
### Ceramic WEECON® Capacitors



CTS TUSONIX WEECON® Ceramic Plate Capacitors are the ideal product when it comes to demanding applications that need exact temperature compensation or very small and accurate capacitance values.

CTS TUSONIX offers WEECON® Capacitors with temperature compensating dielectrics from NPO through N5600 and capacitance values from 1 pF to 12,000 pF for the temperature compensating dielectrics and up to 0.082 μF for Z5U ceramic dielectrics. Capacitance tolerance from 0.1 pF at a nominal capacitance of less than 10 pF or from 1 percent for nominal capacitance values of greater than 10 pF are available. Please refer to the Ceramic Capacitor Catalog 800 for further details.

WEECON®s are encapsulated with a hard, bright polymeric coating, which is formulated to provide mechanical protection under normal environmental conditions.

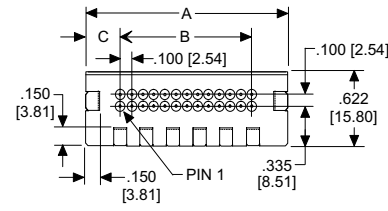
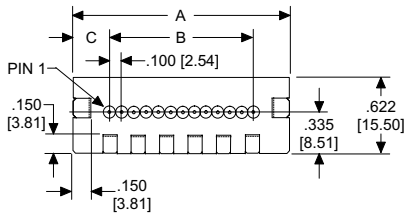


| Part No.                      | Cap. (pF) | Tol.     |
|-------------------------------|-----------|----------|
| <b>C0G (NPO) Ultra-Stable</b> |           |          |
| 8101-A100-C0K0-109B           | 1.0       | ±0.1 pF  |
| 8101-A100-C0K0-159B           | 1.5       | ±0.1 pF  |
| 8101-A100-C0K0-189B           | 1.8       | ±0.1 pF  |
| 8101-A100-C0J0-229B           | 2.2       | ±0.1 pF  |
| 8101-A100-C0J0-229C           | 2.2       | ±0.25 pF |
| 8101-A100-C0J0-279C           | 2.7       | ±0.25 pF |
| 8101-A100-C0J0-339B           | 3.3       | ±0.1 pF  |
| 8101-A100-C0J0-339C           | 3.3       | ±0.25 pF |
| 8101-A100-C0J0-399B           | 3.9       | ±0.1 pF  |
| 8101-A100-C0J0-399C           | 3.9       | ±0.25 pF |
| 8101-A100-C0H0-479C           | 4.7       | ±0.25 pF |
| 8101-A100-C0H0-479D           | 4.7       | ±0.5 pF  |
| 8101-A100-C0H0-569C           | 5.6       | ±0.25 pF |
| 8101-A100-C0H0-569D           | 5.6       | ±0.5 pF  |
| 8101-A100-C0H0-689C           | 6.8       | ±0.25 pF |
| 8101-A100-C0H0-689D           | 6.8       | ±0.5 pF  |
| 8101-A100-C0H0-829C           | 8.2       | ±0.25 pF |
| 8101-A100-C0H0-829D           | 8.2       | ±0.5 pF  |
| 8101-A100-C0G0-100C           | 10        | ±0.25 pF |
| 8101-A100-C0G0-100D           | 10        | ±0.5 pF  |
| 8101-A100-C0G0-120J           | 12        | 5%       |
| 8101-A100-C0G0-150K           | 15        | 10%      |
| 8101-A100-C0G0-150J           | 15        | 5%       |
| 8101-A100-C0G0-180J           | 18        | 5%       |
| 8111-A100-C0G0-220K           | 22        | 10%      |
| 8111-A100-C0G0-220J           | 22        | 5%       |
| 8111-A100-C0G0-330K           | 33        | 10%      |
| 8111-A100-C0G0-330J           | 33        | 5%       |
| 8111-A100-C0G0-470K           | 47        | 10%      |
| 8111-A100-C0G0-470J           | 47        | 5%       |
| 8121-A100-C0G0-560J           | 56        | 5%       |
| 8121-A100-C0G0-680J           | 68        | 5%       |
| 8121-A100-C0G0-101K           | 100       | 10%      |
| <b>X7R Stable</b>             |           |          |
| 8101-A100-X7R0-221K           | 220       | ±10%     |
| 8101-A100-X7R0-271K           | 270       | ±10%     |
| 8101-A100-X7R0-331K           | 330       | ±10%     |
| 8101-A100-X7R0-471K           | 470       | ±10%     |
| 8111-A100-X7R0-102K           | 1,000     | ±10%     |
| 8121-A100-X7R0-332K           | 3,300     | ±10%     |

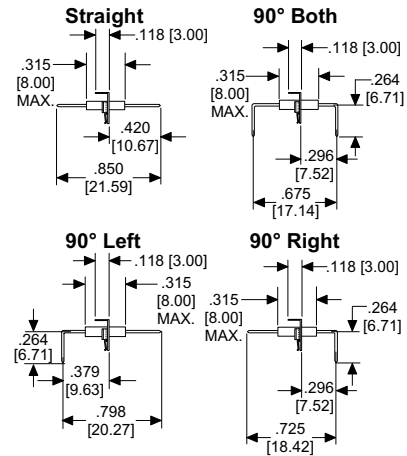
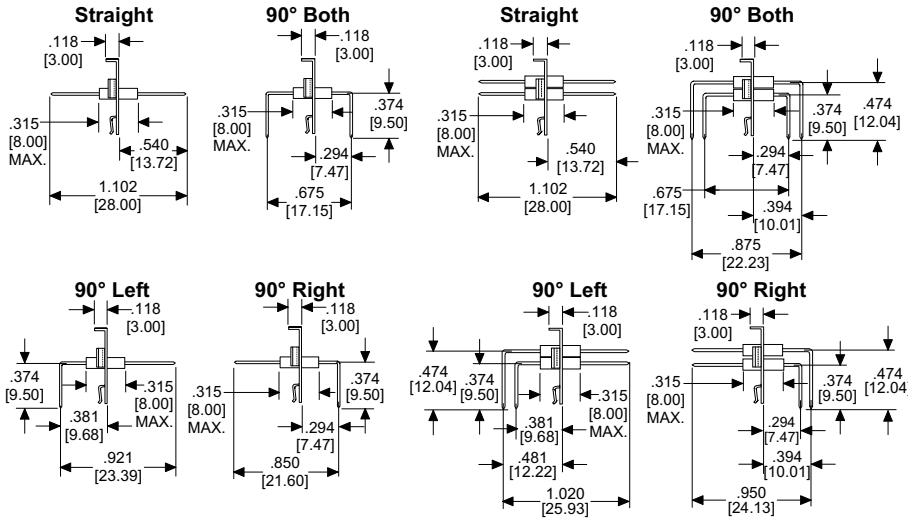
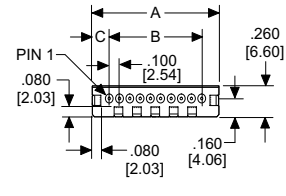
## Quick Connect Assembly Plates

Download literature at <http://delivr.com/1h3fs>

### Plate Style 77



### Plate Style 78



Style 77 Dimension "C"

| Ref.# | A Length      | No. of Lines per Row* | Dimension C   |
|-------|---------------|-----------------------|---------------|
| 0     | 1.092 [27.74] | 1-2                   | 0.496 [12.60] |
|       |               | 3-4                   | 0.396 [10.06] |
|       |               | 5-6                   | 0.296 [7.52]  |
| 1     | 1.812 [46.02] | 1                     | 0.906 [23.01] |
|       |               | 2-3                   | 0.806 [20.47] |
|       |               | 4-5                   | 0.706 [17.93] |
|       |               | 6-7                   | 0.606 [15.39] |
|       |               | 8-9                   | 0.506 [12.85] |
|       |               | 10-11                 | 0.406 [10.31] |
|       |               | 12-13                 | 0.306 [7.77]  |

Style 78 Dimension "C"

| Ref.# | A Length      | No. of Lines per Row* | Dimension C   |
|-------|---------------|-----------------------|---------------|
| 0     | 0.990 [25.15] | 2-3                   | 0.395 [10.03] |
|       |               | 4-5                   | 0.295 [7.49]  |
|       |               | 6-7                   | 0.195 [4.95]  |
| 1     | 1.240 [31.49] | 1-2                   | 0.570 [14.48] |
|       |               | 3-4                   | 0.470 [11.94] |
|       |               | 5-6                   | 0.370 [9.40]  |
|       |               | 7-8                   | 0.270 [6.86]  |
|       |               | 9-10                  | 0.170 [4.32]  |

\*When ordering a Miniature Quick Connect or another plate with a single row of filters, use the designation for the bottom row in the part number and enter a value of 00 in the top row of the part number.

\*\*To select different filter values please provide CTS TUSONIX with a table showing where each Filter will mount. Example:

|   |   |   |   |   |
|---|---|---|---|---|
| A | A | S | S | S |
| A | A | S | S | S |

### Filter Performance

| Part No. | Circuit  | Capacitance |           | Typical No Load Insertion Loss dB @ 25°C per MIL-STD-220 |       |       |       |        |        |        |      |
|----------|--|-------------|-----------|--|-------|-------|-------|--------|--------|--------|------|
|          |  | Value       | Tolerance | 5MHz   | 10MHz | 20MHz | 50MHz | 100MHz | 200MHz | 500MHz | 1GHz |
| A        | C  | 68pF        | +80/-20%  | -  | -     | -     | -     | -      | 3      | 10     | 16   |
| B        | C  | 100pF       | +80/-20%  | -  | -     | -     | -     | 1      | 6      | 14     | 19   |
| C        | C  | 135pF       | +100-0%   | -  | -     | -     | 1     | 5      | 10     | 16     | 20   |
| D        | C  | 470pF       | +80/-20%  | -  | -     | 2     | 7     | 12     | 17     | 23     | 27   |
| E        | C  | 820pF       | +80/-20%  | -  | 2     | 6     | 12    | 18     | 23     | 29     | 33   |
| F        | C  | 1,000pF     | +80/-20%  | -  | 3     | 7     | 14    | 20     | 25     | 31     | 35   |
| G        | C  | 1,500pF     | +80/-20%  | 1  | 5     | 10    | 16    | 22     | 27     | 33     | 37   |
| H        | C  | 2,500pF     | +100-0%   | 5  | 10    | 15    | 21    | 25     | 32     | 36     | 40   |
| K        | C  | 4,000pF     | +100-0%   | 9  | 15    | 20    | 25    | 30     | 34     | 41     | 45   |
| N        | Pi   | 68pF        | +80/-20%  | -  | -     | -     | -     | 1      | 5      | 15     | 20   |
| O        | Pi   | 100pF       | +80/-20%  | -  | -     | -     | -     | 2      | 9      | 22     | 28   |
| P        | Pi   | 135pF       | +100-0%   | -  | -     | -     | -     | 1      | 5      | 16     | 24   |
| Q        | Pi   | 470pF       | +80/-20%  | -  | -     | -     | 9     | 18     | 22     | 36     | 43   |
| R        | Pi   | 820pF       | +80/-20%  | -  | -     | 3     | 13    | 22     | 30     | 42     | 50   |
| S        | Pi   | 1,000pF     | +80/-20%  | -  | 2     | 7     | 16    | 24     | 36     | 48     | 55   |
| T        | Pi   | 1,700pF     | +100-0%   | 1  | 6     | 14    | 28    | 35     | 48     | 60     | 70   |
| U        | Pi   | 2,500pF     | +100-0%   | 3  | 9     | 16    | 28    | 41     | 52     | 62     | 70   |
| V        | Pi   | 5,000pF     | +100-0%   | 7  | 14    | 27    | 41    | 53     | 66     | 70     | 70   |
| X        | Filter Characteristics are determined by the customer. |             |           |  |       |       |       |        |        |        |      |
| Y        | Insul.   | 10pF        | Max.      | -  | -     | -     | -     | -      | -      | -      | -    |
| Z        | Gnd Pin  | -           | -         | -  | -     | -     | -     | -      | -      | -      | -    |

**Ordering Information:** In order for CTS TUSONIX to establish the exact configuration required, please provide the following encoded description number as outlined below. A CTS TUSONIX part number will then be assigned to meet your specific needs.

The part number shown below represents the Quick Connect 1.812 length with two rows of seven lines per row. The filters are Pi circuits with a capacitance of 1000pF and straight leads. 7712-0707-SA

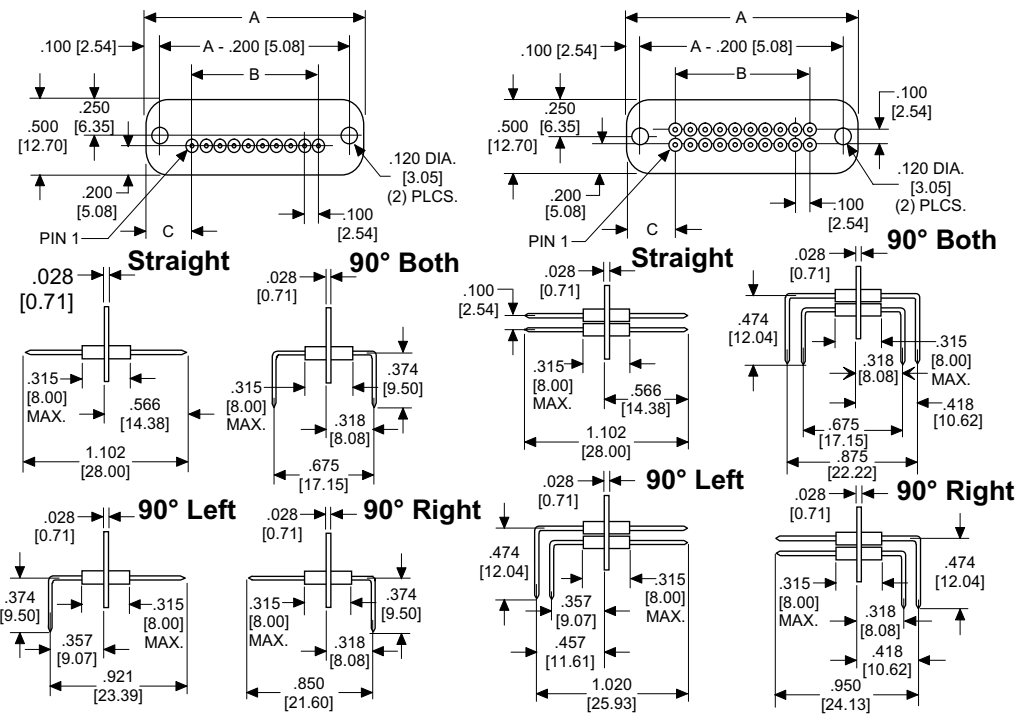
| 77   | 1                          | 2           | 07                | 07                | S               | A   |
|--|----------------------------|-------------|-------------------|-------------------|-----------------|---|
| Plate style  | Plate Length               | Filter Type | Bottom Row*       | Top Row           | Cap Value**     | Lead Configuration                                    |
| 77=Quick Connect<br>78=Miniature QC<br>79=Standard | Ref. # from drawings above | C=1<br>Pi=2 | Number of Filters | Number of Filters | See Table above | A=Straight<br>B=90° Right<br>C=90° Left<br>D=90° Both |

To request custom filtering, mechanical or material requirements not shown here, please contact our Customer Service Department at (508) 435-6831.

The products listed in this catalog are only a few of the thousands of variations that CTS TUSONIX produces. For custom applications, please contact the factory.

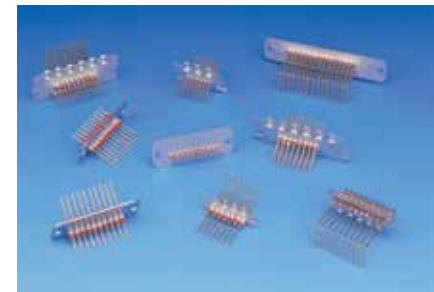
### Quick Connect Assembly Plates / Filtered Terminal Blocks

#### Plate Style 79

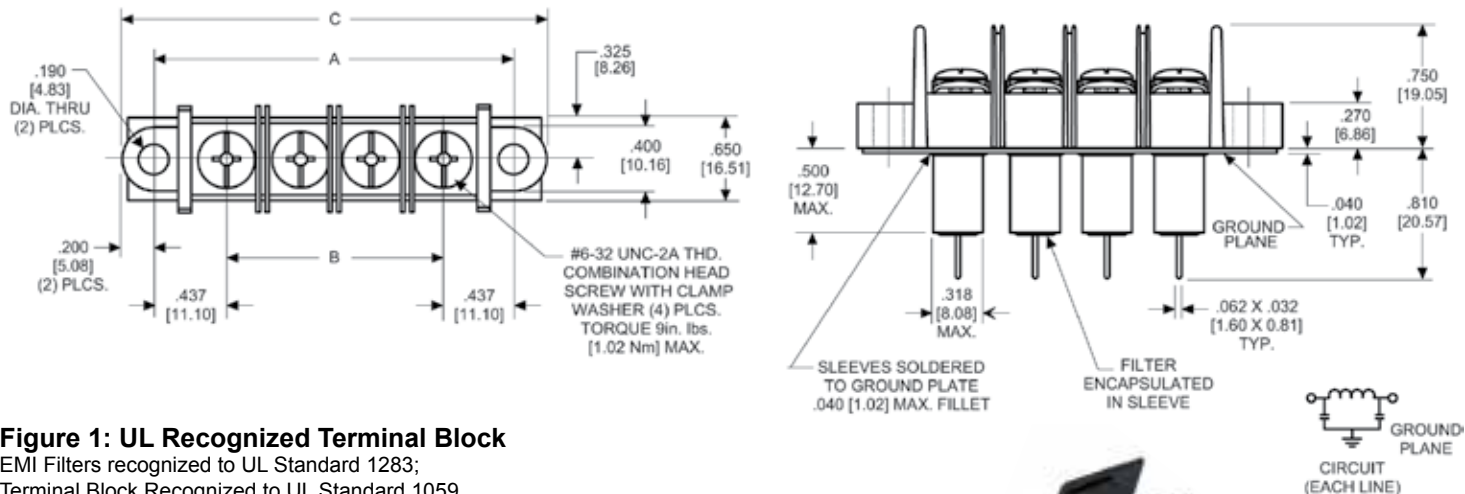


#### Style 79 Dimension "C"

| Ref.# | A Length        | No. of Lines per Row* | Dimension C  |
|-------|-----------------|-----------------------|--------------|
| 0     | 1.06<br>[26.92] | 1                     | 0.53 [13.46] |
|       |                 | 2-3                   | 0.43 [10.92] |
|       |                 | 4-5                   | 0.33 [8.38]  |
| 1     | 1.56<br>[39.62] | 1-2                   | 0.73 [18.54] |
|       |                 | 3-4                   | 0.63 [16.00] |
|       |                 | 5-6                   | 0.53 [13.46] |
|       |                 | 7-8                   | 0.43 [10.92] |
|       |                 | 9-10                  | 0.33 [8.38]  |
| 2     | 2.56<br>[65.02] | 5-6                   | 1.03 [26.16] |
|       |                 | 7-8                   | 0.93 [23.62] |
|       |                 | 9-10                  | 0.83 [21.08] |
|       |                 | 11-12                 | 0.73 [18.54] |
|       |                 | 13-14                 | 0.63 [16.00] |
|       |                 | 15-16                 | 0.53 [13.46] |
|       |                 | 17-18                 | 0.43 [10.92] |
|       |                 | 19-20                 | 0.33 [8.38]  |



#### UL Recognized Filtered Terminal Blocks

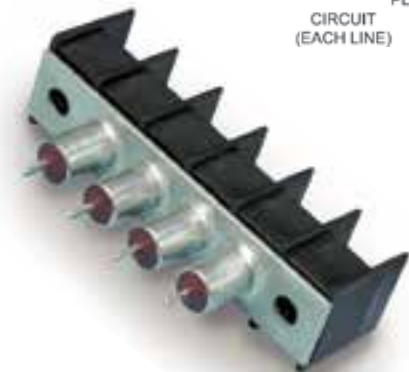


**Figure 1: UL Recognized Terminal Block**

EMI Filters recognized to UL Standard 1283;  
 Terminal Block Recognized to UL Standard 1059  
 (Reference UL file Number E201344.)  
 Operating Temperature: -40°C to +105°C  
 Working Voltage: 250V<sub>AC</sub>  
 Capacitance: 2000pF MIN.  
 IR: Minimum 10,000 MΩ  
 Current Rating: 20A  
 DC Resistance: 10 miliΩ MAX.

Download literature at <http://delivr.com/2utm>

| Part No. | Fig. | Dim. A        | Dim. B        | Dim. C       |
|----------|------|---------------|---------------|--------------|
| 7602-501 | 2    | 1.312 [33.32] | 0.437 [11.1]  | 1.71 [43.43] |
| 7603-501 | 3    | 1.75 [44.45]  | 0.874 [22.2]  | 2.15 [54.61] |
| 7604-501 | 4    | 2.188 [55.58] | 1.311 [33.3]  | 2.59 [65.79] |
| 7605-501 | 5    | 2.62 [66.68]  | 1.748 [44.4]  | 3.02 [76.71] |
| 7606-501 | 6    | 3.063 [77.8]  | 2.185 [55.55] | 3.46 [87.88] |



## Part Number Index

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| 357-001 Series | 4    | 2425-601        | 4    | 4202-000 | 5    | 4300-021 | 3    | 4403-030 | 3    | 4700-058         | 2    |
| 512-000 Series | 7    | 2499-003 Series | 4    | 4202-004 | 5    | 4300-022 | 3    | 4403-031 | 3    | 4700-059         | 2    |
| 512-001 Series | 7    | 2499-523-Series | 4    | 4202-050 | 5    | 4300-023 | 3    | 4403-032 | 3    | 4701-001         | 2    |
| 512-019 Series | 7    | 4100-000        | 2    | 4203-003 | 5    | 4300-024 | 3    | 4403-033 | 3    | 4701-002         | 2    |
| 518-000 Series | 7    | 4100-003        | 2    | 4203-053 | 5    | 4300-680 | 3    | 4403-034 | 3    | 6003 Series      | 6    |
| 518-002 Series | 7    | 4100-053        | 2    | 4203-552 | 5    | 4300-681 | 3    | 4403-037 | 3    | 6004 Series      | 6    |
| 528-000 Series | 7    | 4101-000        | 2    | 4205-001 | 5    | 4400-016 | 3    | 4600-000 | 6    | 6006 Series      | 6    |
| 528-002 Series | 7    | 4101-001        | 2    | 4206-006 | 5    | 4400-030 | 3    | 4600-003 | 6    | 6008 Series      | 6    |
| 538-000 Series | 7    | 4101-002        | 2    | 4206-501 | 5    | 4400-030 | 3    | 4600-050 | 6    | 7602-501         | 10   |
| 538-002 Series | 7    | 4101-003        | 2    | 4206-502 | 5    | 4400-032 | 3    | 4600-053 | 6    | 7603-501         | 10   |
| 538-006 Series | 7    | 4101-502        | 2    | 4209-003 | 5    | 4400-033 | 3    | 4600-059 | 6    | 7604-501         | 10   |
| 538-011 Series | 7    | 4101-503        | 2    | 4209-053 | 5    | 4400-034 | 3    | 4601-000 | 6    | 7605-501         | 10   |
| 538-026 Series | 7    | 4102-000        | 2    | 4251-000 | 4    | 4400-037 | 3    | 4601-050 | 6    | 7606-501         | 10   |
| 538-074 Series | 7    | 4151-000        | 2    | 4251-004 | 4    | 4400-076 | 5    | 4601-055 | 6    | 77XX -Series     | 9    |
| 801-000 Series | 8    | 4151-001        | 2    | 4253-002 | 4    | 4400-093 | 5    | 4601-059 | 6    | 78XX -Series     | 9    |
| 801-040 Series | 8    | 4201-000        | 4    | 4300-000 | 3    | 4400-093 | 5    | 4700-003 | 2    | 79XX -Series     | 9    |
| 811-040 Series | 8    | 4201-001        | 4    | 4300-001 | 3    | 4400-095 | 5    | 4700-005 | 2    | 8101-A100-Series | 8    |
| 831-040 Series | 8    | 4201-050        | 4    | 4300-002 | 3    | 4400-096 | 5    | 4700-006 | 2    | 8111-A100-Series | 8    |
| 838-040 Series | 8    | 4201-051        | 4    | 4300-003 | 3    | 4400-097 | 5    | 4700-008 | 2    | 8121-A100-Series | 8    |
| 841-040 Series | 8    | 4201-053        | 4    | 4300-004 | 3    | 4400-098 | 5    | 4700-009 | 2    |                  |      |
| 848-040 Series | 8    | 4201-501        | 4    | 4300-006 | 3    | 4400-099 | 5    | 4700-053 | 2    |                  |      |
| 2425-018       | 4    | 4201-502        | 4    | 4300-020 | 3    | 4400-683 | 5    | 4700-056 | 2    |                  |      |

## MIL Cross Reference

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