

| Part Number | OCL (uH) nominal (1-2) & (4-3) | I rms. Amperes Max * | DCR ( $\Omega$ ) typ @ 20°C (1-2) | DCR ( $\Omega$ ) typ @ 20°C (4-3) | Leakage Inductance (uH) typ | Interwinding Capacitance (pF) typ |
|-------------|--------------------------------|----------------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------------------------|
| CMS3-4      | 105                            | 3.95                 | 0.010                             | 0.010                             | 0.85                        | 3.50                              |
| CMS3-5      | 175                            | 3.10                 | 0.017                             | 0.017                             | 1.30                        | 3.70                              |
| CMS3-6      | 260                            | 2.85                 | 0.020                             | 0.020                             | 1.90                        | 3.90                              |
| CMS3-7      | 310                            | 2.45                 | 0.027                             | 0.027                             | 2.20                        | 4.15                              |
| CMS3-8      | 420                            | 2.00                 | 0.040                             | 0.040                             | 3.00                        | 4.40                              |
| CMS3-9      | 480                            | 1.70                 | 0.053                             | 0.053                             | 3.30                        | 4.65                              |
| CMS3-10     | 620                            | 1.45                 | 0.076                             | 0.076                             | 4.20                        | 4.85                              |
| CMS3-11     | 780                            | 1.20                 | 0.107                             | 0.107                             | 5.10                        | 5.10                              |
| CMS3-12     | 950                            | 1.05                 | 0.145                             | 0.145                             | 6.10                        | 5.35                              |
| CMS3-13     | 1250                           | 0.88                 | 0.210                             | 0.210                             | 7.80                        | 5.55                              |
| CMS3-14     | 1600                           | 0.75                 | 0.300                             | 0.300                             | 9.60                        | 5.80                              |

#### Definitions:

OCL = Open Circuit Inductance

DCR = Direct Current Resistance

I<sub>rms</sub> = rms current for approx. a 40°C temperature rise at an ambient temperature of 85°C.

\*Operating Temperature: 160°C Max. Inductance values are sustained up to 160°C.

#### Electrical Characteristics:

OCL (1-2) 0.10Vrms, 100kHz, 0.0Adc: (See Chart)

OCL (4-3) 0.10Vrms, 100kHz, 0.0Adc: (See Chart)

DCR (1-2) typ @ 20°C: (See Chart)

DCR (4-3) typ @ 20°C: (See Chart)

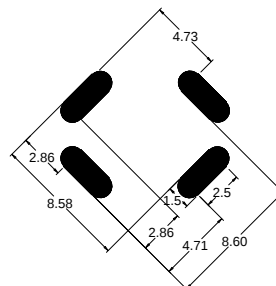
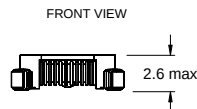
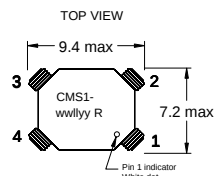
Hipot rating: winding to winding: 300Vdc min. for 1 second.

Turns Ratio: (1-2):(4-3) 1:1

## Mechanical Diagrams

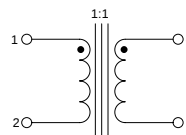
### CMS1 Series

#### RECOMMENDED PCB LAYOUT



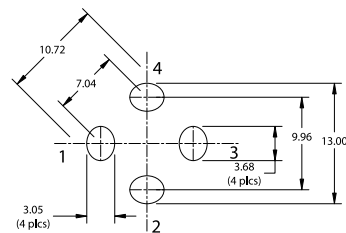
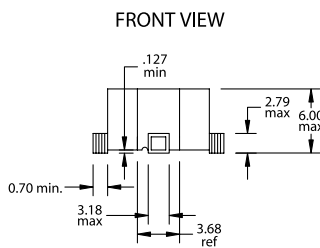
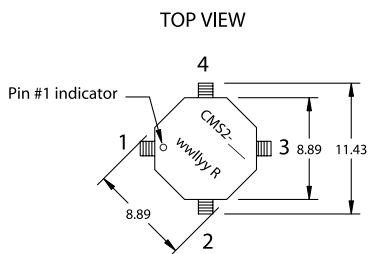
Component Side

#### SCHEMATIC



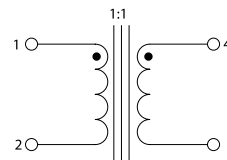
### CMS2 Series

#### RECOMMENDED PCB LAYOUT



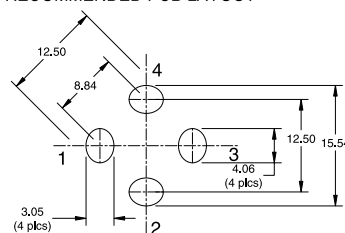
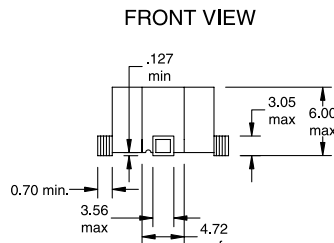
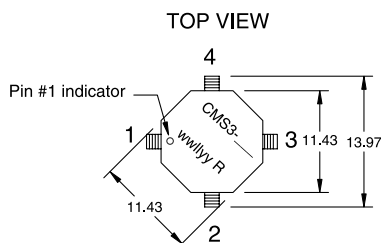
Component Side

#### SCHEMATIC



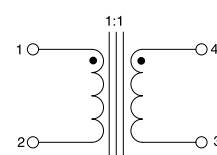
### CMS3 Series

#### RECOMMENDED PCB LAYOUT



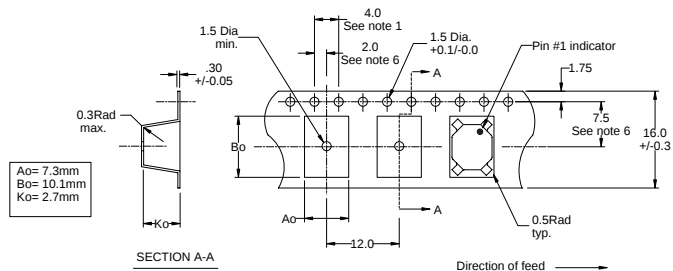
Component Side

#### SCHEMATIC

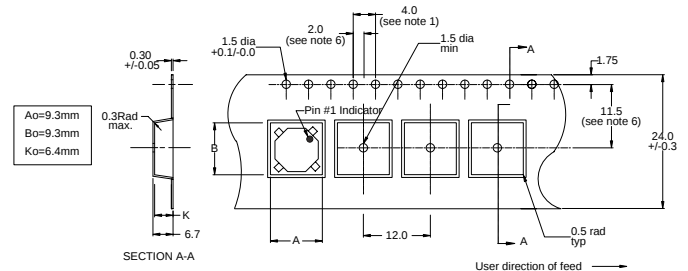


## Packaging Information

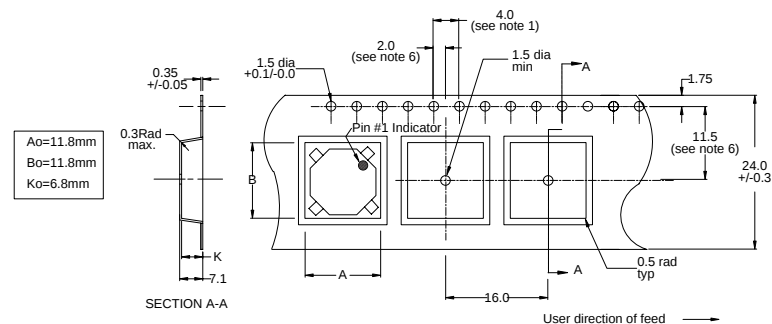
## CMS1 Series



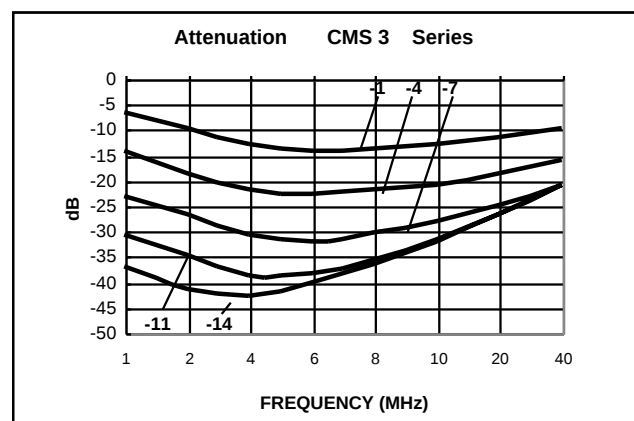
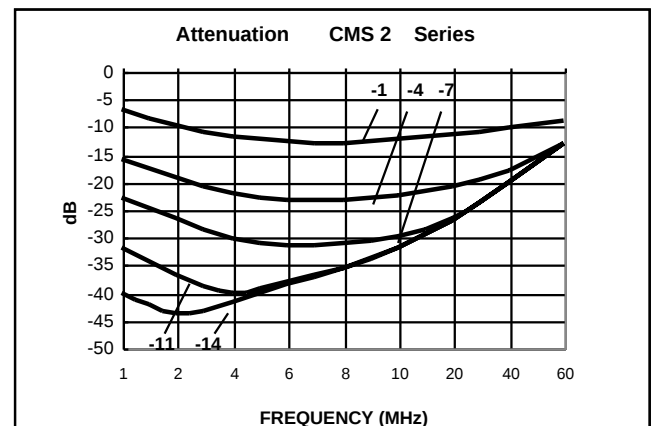
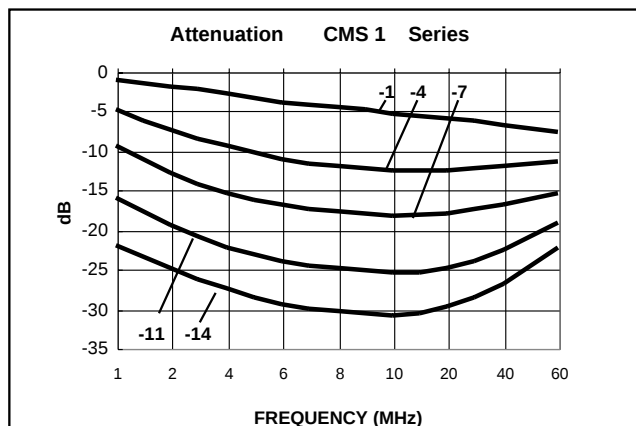
## CMS2 Series



## CMS3 Series



## Attenuation Curves



## Impedance Curves

