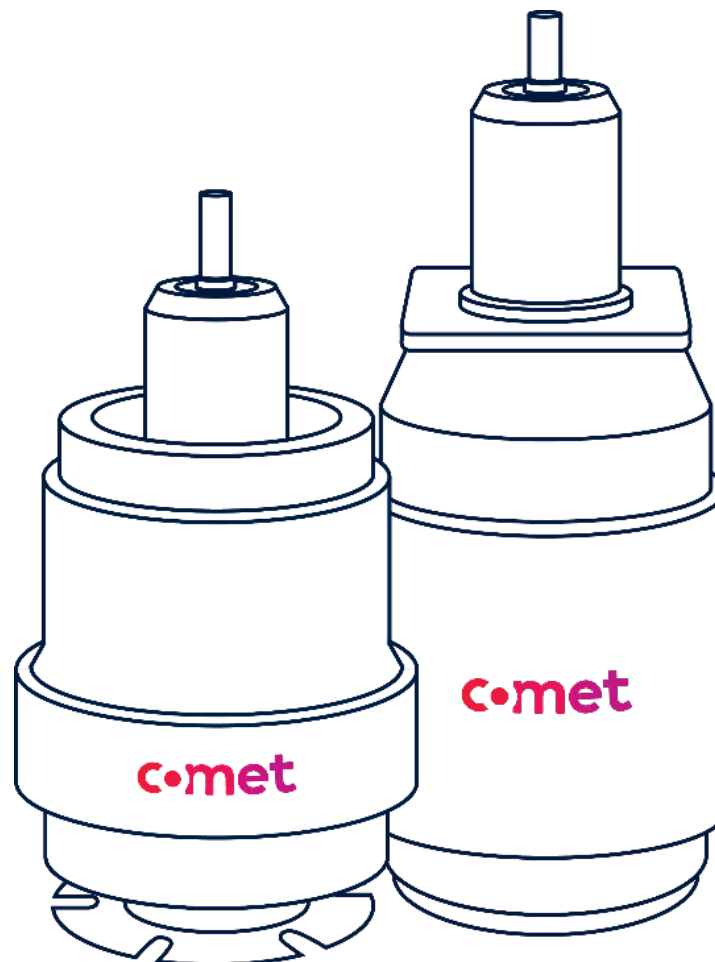


Mounting of Mini-Cap (CFMN) and Trimmer-Cap (CTMN) Series



Contents

Introduction	3
Mini-Cap Series	4
<i>A, B, E and M Geometry</i>	4
<i>C and D Geometry</i>	5
Trimmer-Cap Series.....	6
<i>A, C and D Geometry</i>	6
<i>E Geometry</i>	6

Introduction

Convection and forced air cooled capacitors can be mounted in any position (vertical or horizontal). As good engineering practice, it is strongly suggested that only one side is mounted on a rigid platform and the opposite side be connected to a non-rigid plane (or strap) to prevent excessive thermo-mechanical and/or external forces from damaging the capacitor.

Comet Mini-Caps and Comet Trimmer-Caps are widely used in different applications like matching networks, DC blocking and RF sealing, mostly in semiconductor industry. Mini- and Trimmer-Caps are delivered with a mounting kit for easy installation. Optional are extension rods for easy replacement. The maximal admissible tightening torque can be found in Service Bulletin SB-27.

Table 1: Overview mounting of CFMN

Mini-Cap Type	Height in mm	Diameter ¹ in mm	Top Mounting	Bottom Mounting
A-Geometry	52	48	1 x M6	1 x M6
B-Geometry	52	75	1 x M6	1 x M6
C-Geometry	62	48	1 x M4	1 x M4
D-Geometry	73	48	1 x M4	1 x M4
E-Geometry	87	64	1 x M6 / 4 x M4	1 x M6 / 4 x M4
F-Geometry	66	15	1 x M4	1 x M4
G-Geometry	43	31	1x M5	1x M5
H-Geometry	43	37 ²	1x M4	1x M4
I-Geometry	93	48	1 x M4	1 x M4
K-Geometry	113	48	1 x M4	1 x M4
M-Geometry	63	85	1x M6	1x M6

Table 2: Overview mounting of CTMN

Trimmer-Cap Type	Height in mm	Diameter ¹ in mm	Top Mounting	Bottom Mounting
A-Geometry	79	48	M12 x 0.75	1x M5
C-Geometry	65	49	M12 x 0.75	1 x M5
D-Geometry	76	48	M12 x 0.75	1 x M5
E-Geometry	95	64	M12 x 0.75	1 x M6 / 4 x M4

¹ Diameter of mounting plate

² Exception: CFMN HA-Block has a diameter of 31 mm

Mini-Cap Series

In the Mini-Cap series of capacitors there are two basic outline features:

- A, B, E and M geometry, and
- C and D geometry.

Below the recommended connections to these capacitors are shown. If desired, one side can be fixed to a ground plate, permitting flush mount to the bulk head. The second side should be connected to a flexible strap. One can always use two flexible straps as shown, if it is better in the circuit.

A, B, E and M Geometry

In this case COMET Mini-Caps have a flat surface on both ends. The mounting kit 058-071 consists of a beveled washer, a spring washer and a M6 screw. In the case of flexible straps, provide a hole for the M6 screw (approximately 7 mm in diameter).

Place the strap onto the contact surface and use the beveled washer as shown. Complete the attachment with the spring washer and M6 screw. If it is desired to mount one side flush to the bulk head, drill a hole for the M6 screw approximately 2 mm deep. Then provide a shoulder for a support washer having a diameter of at least 12 mm, recessed so that the spring washer and M6 screw is flush. If one desires to use the beveled washer, the diameter for the recess should be bigger than the 30 mm diameter of the washer.

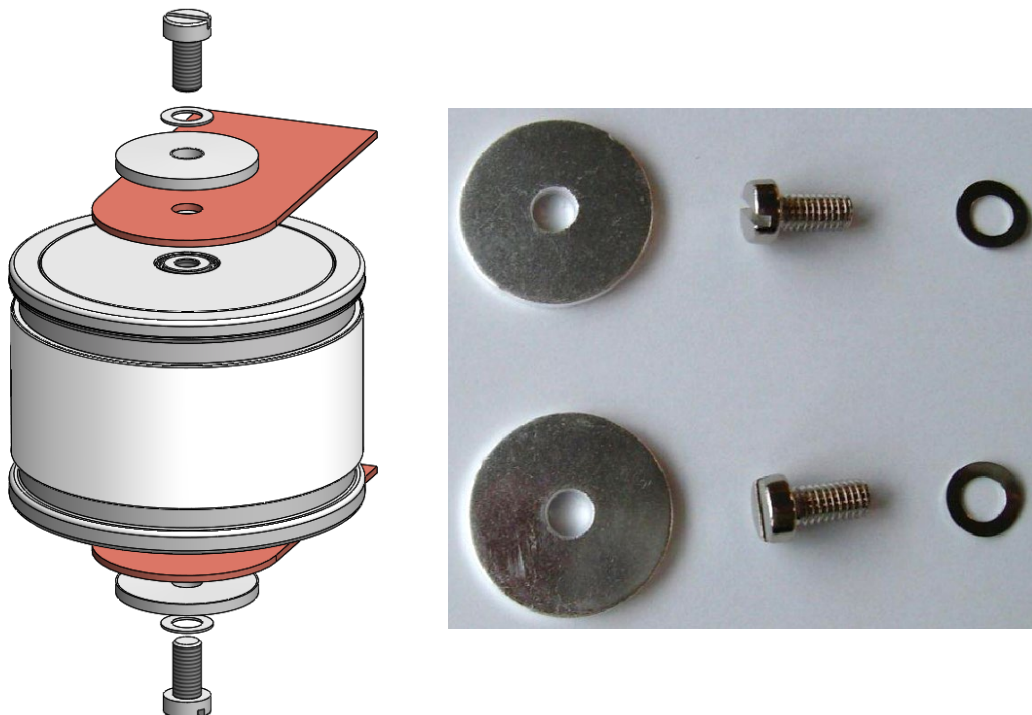


Fig. 1: Schematic view of mounting of CFMN-B geometry with mounting kit 058-071

The CFMN E geometry has in addition to the tapped hole 8 mm deep M6, four holes 4 mm deep on the outer rim tapped with M4 thread which can be used if desired (see Service Bulletin SB-27 for maximal admissible tightening torque).

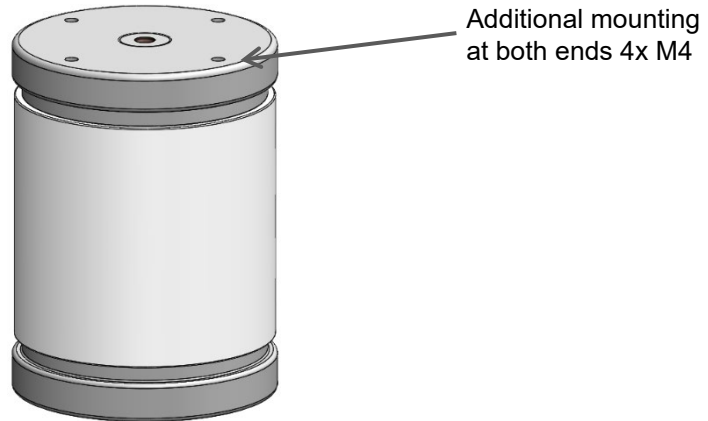


Fig. 2: Schematic view of CFMN-E geometry 3D model

C and D Geometry

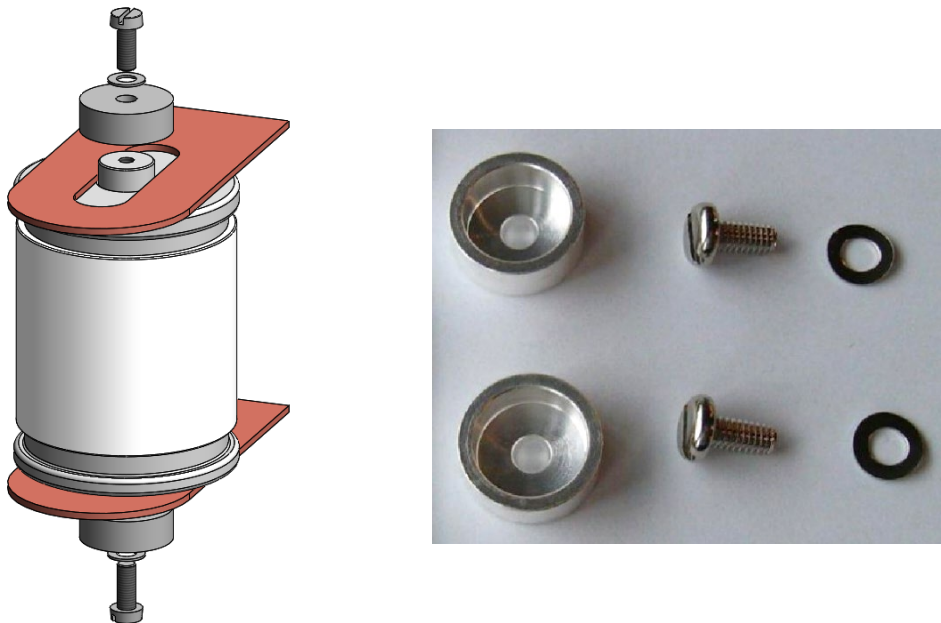


Fig. 3: Schematic view of mounting of CFMN C and D geometry with mounting kit 058-070

In this case, a hole should be provided to go around the mounting stub to allow a slightly loose fit (A diameter of 13 to 14 mm). For final connection the adapter cap provided in the mounting kit 058-070 along with the spring washer and M4 screw should be used. If the bottom ground connection should be flush, drill a hole 13 to 14 mm in diameter and at least 5 mm deep. Provide a shoulder for a support washer with an OD of approximately 18 mm and use the spring washer and M4 screw provided to complete the connection.

Trimmer-Cap Series

A, C and D Geometry

The COMET Trimmer-Caps (CTMN) are mounted analog the Mini-Caps, except the top mounting uses a M12x0.75 nut.

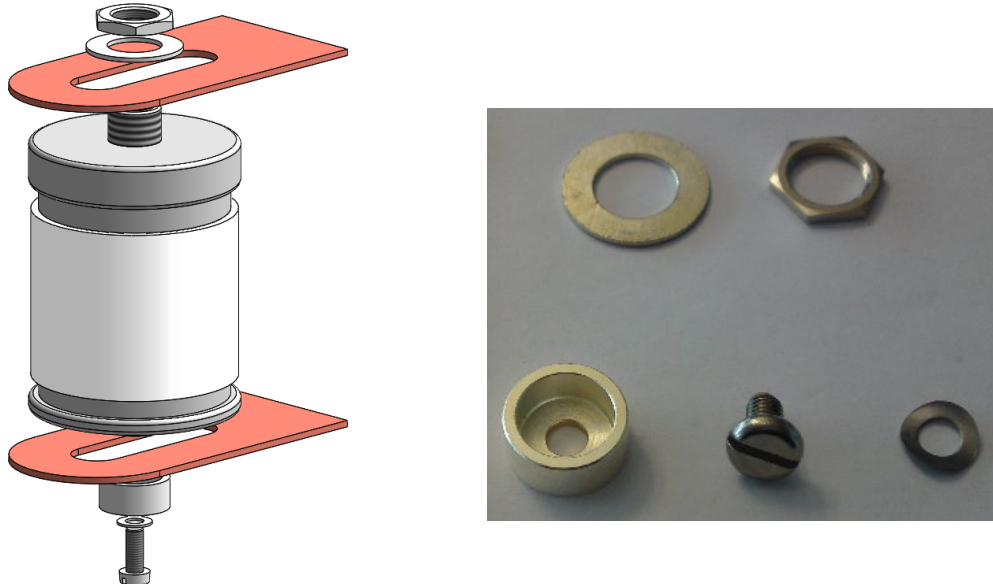


Fig. 4: Schematic view of mounting of CTMN D geometry with mounting kit 20055475

E Geometry

The Trimmer-Cap E geometry provides at the bottom end four holes 4 mm deep on the outer rim tapped with M4 thread which can be used if desired. At the top end it is analog the Mini-Cap C and D geometry.

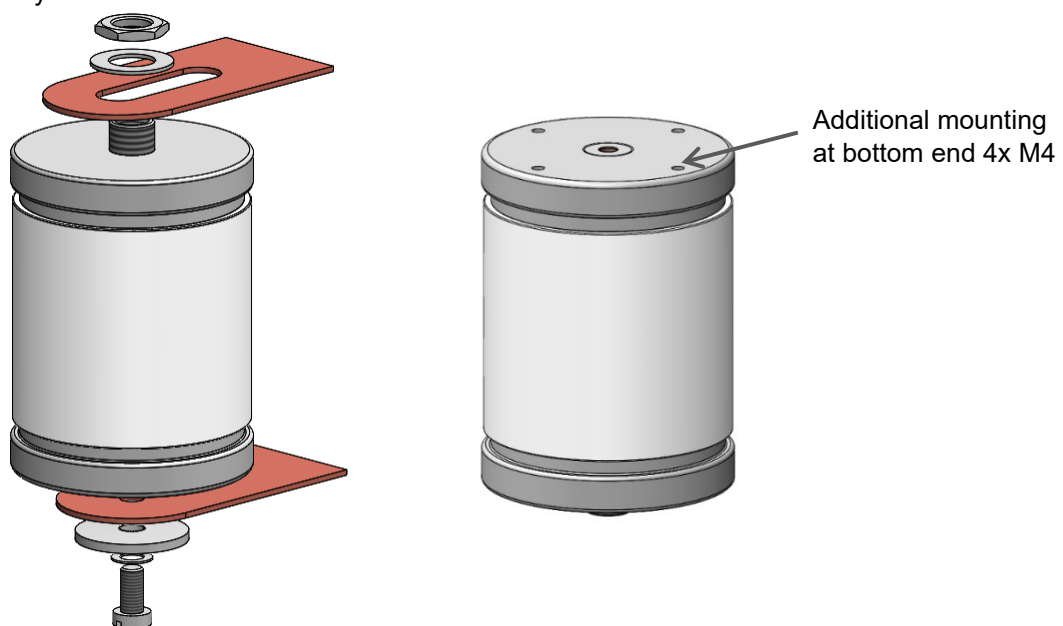


Fig. 5: Schematic view of mounting of CTMN E geometry with mounting kit 058-071 and 20055475 (left) and bottom view of the CTMN E geometry 3D model (right)

Led by experience. Driven by curiosity.

Switzerland (Head Office)

Comet AG
Herrengasse 10
CH-3175 Flamatt
T +41 31 744 95 00

United States

Comet Technologies USA, Inc.
Plasma Control Technologies
2360 Bering Drive
San José, CA 95131
T +1 408 325 8770

China

Comet Mechanical Equipment (Shanghai) Co. Ltd.
2777 East Jinxiu Road
Building 36, 8th floor
Pudong, Shanghai 201206
T +86 21 6879 9000

Germany

YXLON International GmbH
Plasma Control Technologies
Kellershaustrasse 22
DE-52078 Aachen
T +49 241 936 87 00

South Korea

Comet Technologies Korea Co., Ltd.
Suwon Venture Plaza Bldg, Room 402
48, Samsung-ro, 168 beon-gil, Yeongtong-gu
Suwon-si, Gyeonggi-do, ZIP 16676
T +82 (0)70 4337 6480

Malaysia

Comet Technologies Malaysia Sdn Bhd
PMT 761 Persiaran Cassie Selatan 3
Taman Perindustrian Batu Kawan
14110 Bandar Cassia
Penang

Taiwan

Comet Solutions Taiwan Ltd.
1F., No. 120, Guangming Rd.
Qionglin Township
Hsinchu County 307001
T +886 3 592 2398



Web pct.comet.tech



E-mail pct@comet.tech