

B

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1	1X FAN, F-6010M05BII
2	1X MOLEX HOUSING 22-01-3037 OR EQUIV. 3X MOLEX TERMINAL 08-50-0113 OR EQUIV.

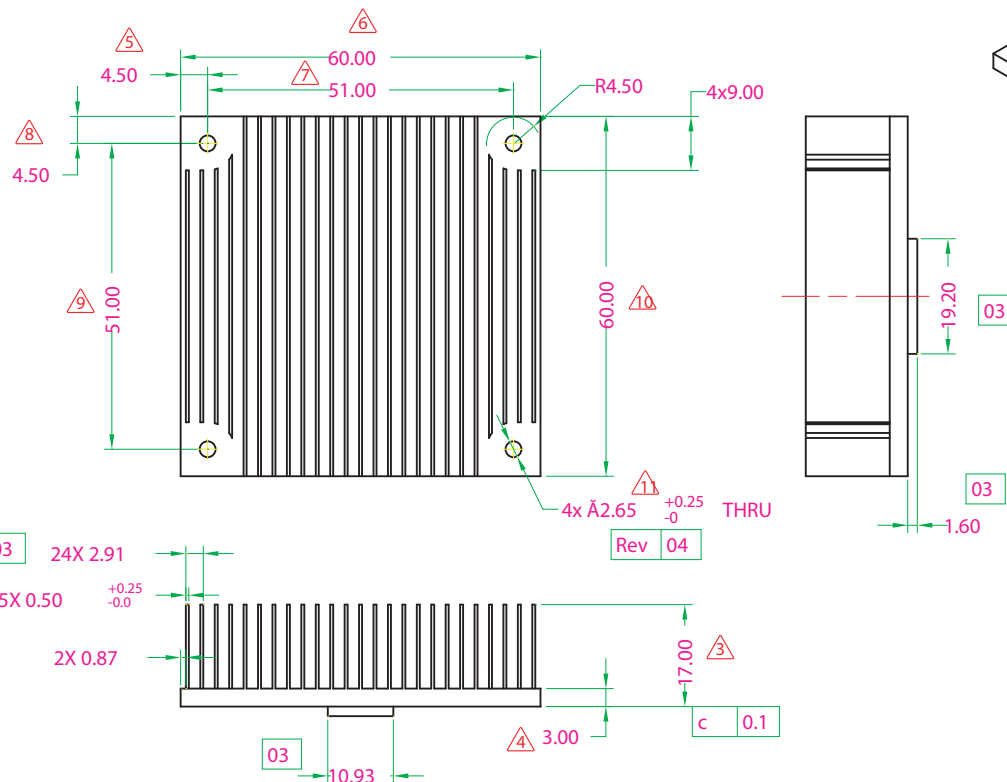
Sep-13-2018

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NOTES

1. MATERIAL ☒ AL6063-T5
2. FINISH ☒ BLACK ANODIZE
3. DEBURR AND BREAK ALL SHARP EDGES..
4.  CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.
5. ALL DIMENSIONS TO INCLUDE APPLICABLE FINISH.
6. PART GROSS WEIGHT: 468.6 g/pcs.

REVISION HISTORY					
REV	DESCRIPTION	DRWN	CHK'D	APPVD	DATE
01	INITIAL RELEASE	Fred	-	-	10-24-12
03	CHANGE DESIGN	Fred	-	-	2018-5-03
04	CHANGE THE HOLES DIA TO 2.65 FROM 3.20	Fred	JunW	-	2018-8-24



RoHS2
Compliant
2011/65/EU

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRE
TOLERANCES ARE:

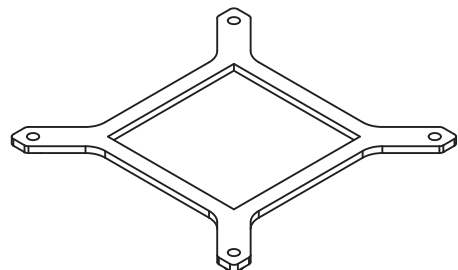
1 PLACE .X	± 0.25
2 PLACE .XX	± 0.20
3 PLACE .XXX	± 0.10
ANGLES EXCEPT 90°	± 1°
MAXIMUM SURFACE ROUGHNESS	3.2

MATERIAL: See Note	CUSTOMER PART NUMBER: --	COFAN USA 46177 WARM SPRING BLVD. FREMONT CA 94539	
DRAWN BY: Fred	COFAN_USA PART NUMBER: 20-9286	NAME: HEATSINK	
CHECKED BY: JunW	NEW COFAN PART NUMBER: 20.01.08184	SCALE: 1:1	CUS REV: --
APPR BY:	UNIT: mm	SHEET: 1 OF 1	COF REV: 04
		DATE DRAWN: Aug-24-2018	

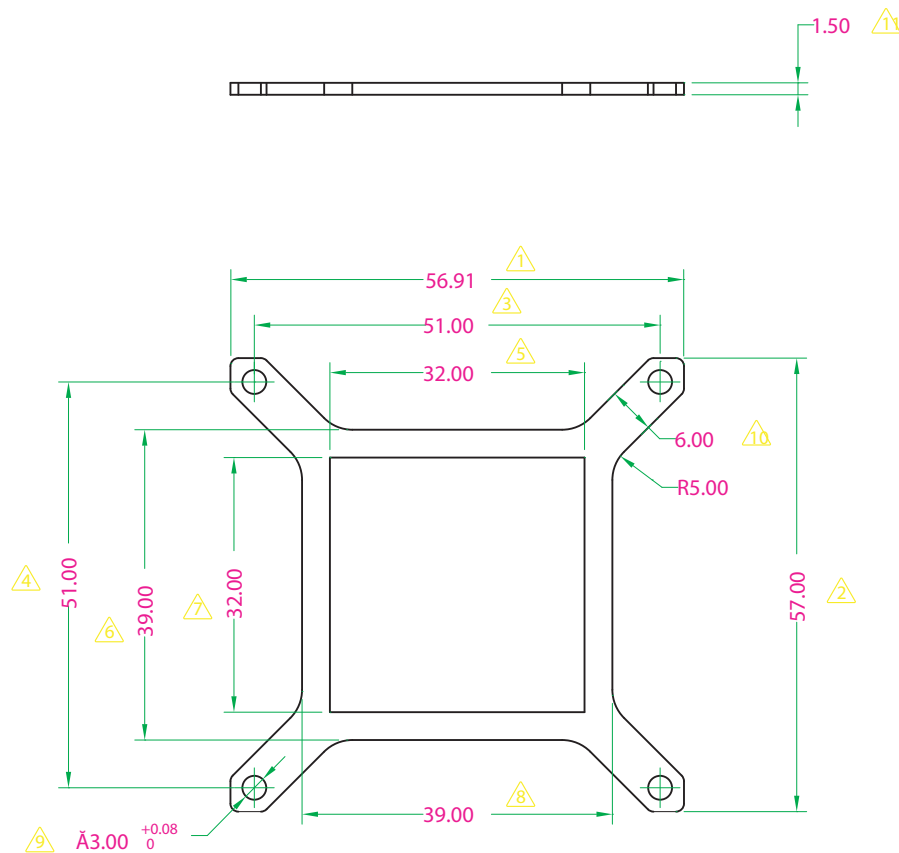
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NOTES

1. MATERIAL ☒ PCC
2. FINISH ☒ NICKEL PLATE.
3. DEBURR AND BREAK ALL SHARP EDGES..
4. ☒ CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.
5. ALL DIMENSIONS TO INCLUDE APPLICABLE FINISH.
6. PART GROSS WEIGHT: XXX g/pcs.



SCALE: 0.7



DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRE
TOLERANCES ARE:
1 PLACE .X ± 0.25
2 PLACE .XX ± 0.12
3 PLACE .XXX ± 0.05
ANGLES EXCEPT 90° ± 1°
MAXIMUM SURFACE ROUGHNESS 3.2

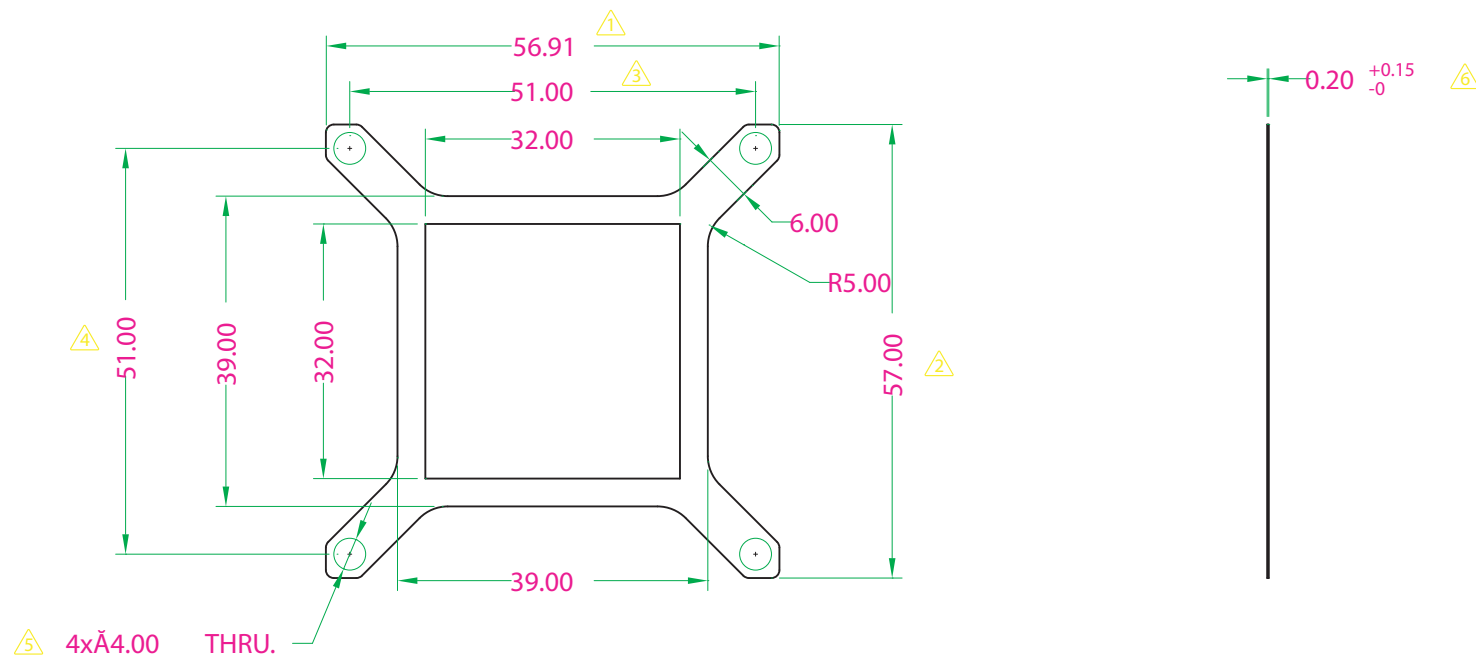
MATERIAL: See Note	CUSTOMER PART NUMBER: --	COFAN USA 46177 WARREN SPRINGS BLVD. FREMONT CA 94539	
DRAWN BY: Fred	COFAN_USA PART NUMBER: 20-6076	NAME: BACK PLATE	
CHECKED BY: Ajje	COFAN_CHINA PART NUMBER: 57.01.00015	SCALE: 1:1	CUS REV: --
APPR BY:	UNIT: mm	SHEET: 1 OF 1	COF REV: 01
		DATE DRAWN: May-24-2012	

RoHS
Compliant
2002/95/EC

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- NOTES ☒
1. SPEC: DOUBLE SIDES 3M D272,
 2. THICKNESS: 0.2MM.
 3. DEBURR AND BREAK ALL SHARP EDGES..
 4. IS CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.
 5. DIELECTRIC STRENGTH: 9.0 Kv/MM.
 6. TENSILE STRENGTH:
CROSS SECTION: 100.
AXIAL SECTION: 120.

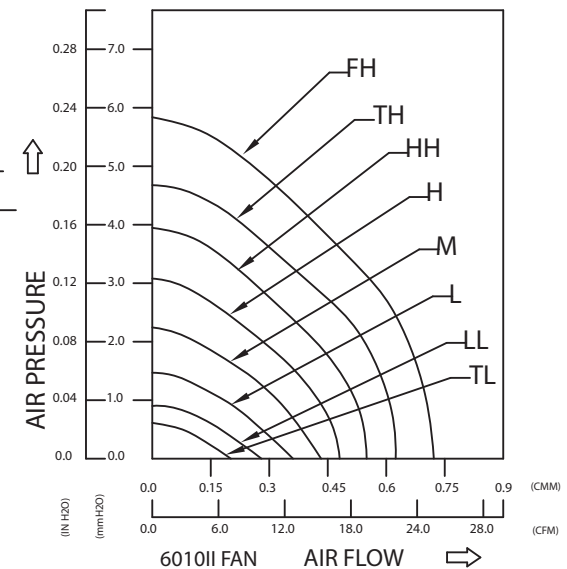
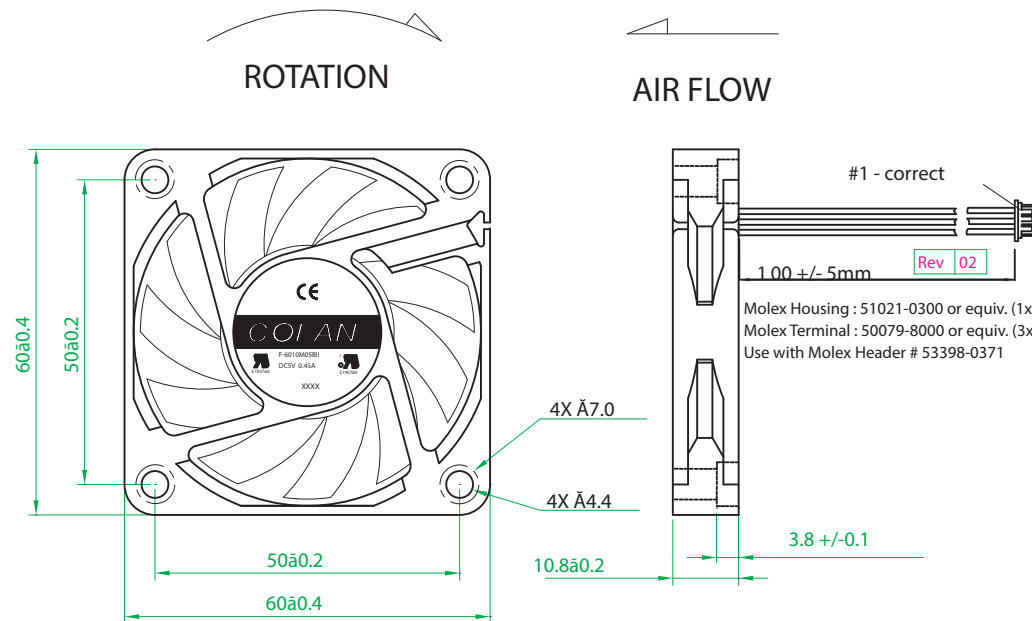
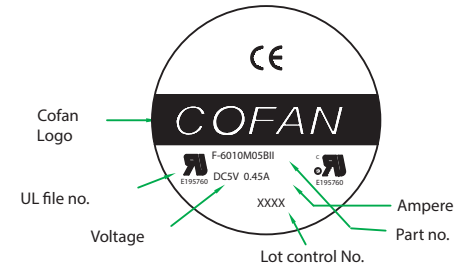
REVISION HISTORY					
REV	DESCRIPTION	DRWN	CHKD	APPVD	DATE
-	-	-	-	-	-



RoHS
Compliant
2002/95/EC

DO NOT SCALE DRAWING		MATERIAL:		CUSTOMER PART NUMBER:		COFAN USA	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRE TOLERANCES ARE:		See Note		--		46177 WARM SPRINGS BLVD. FREEMONT CA 94539	
1 PLACE .X	± 0.25	DRAWN BY:		COFAN_USA PART NUMBER:		NAME:	
2 PLACE .XX	± 0.12	Fred		50-1705		INSULATION	
3 PLACE .XXX	± 0.05	CHECKED BY:		COFAN_CHINA PART NUMBER:		SCALE:	CUS REV:
ANGLES EXCEPT 90°	± 1°	Ajie		55.04.00099		1:1	--
MAXIMUM SURFACE ROUGHNESS	3.2	APPR BY:		UNIT:	SHEET:	DATE DRAWN:	
				mm	1 OF 1	May-24-2012	

To place order use Cofan part # F-6010M05BII-03 Rev 01



Fan Must Be RoHS Compliant

THIS DOCUMENT IS CONFIDENTIAL AND
PROPRIETARY TO COFAN USA, FREMONT, CA

UL# E195760
CUL# E195760
TUV# B 04 03 52557 03
CE# EN50081-1

Notes:

1. Fan must be 2 ball bearing
2. Fan label must be marked with part # F-6010M05BII
3. Fan must have 11 blades
4. Fan must have rotation detector (tachometer sensor)
5. Fan must be RoHS Compliant

MODEL NO	RATED VOLTAGE V	OPERATING VOLTAGE V	RATED CURRENT A	ACTUAL CURRENT A	RATED POWER W	RATED SPEED RPM	MAX AIR FLOW @ 3600 RPM		MAX PRESSURE @ 3600 RPM		NOISE LEVEL dBA
							CMM	CFM	mmH ₂ O	InH ₂ O	
F-6010M05BII	5	4~5.5	0.45	0.34	2.25	3600	0.398	14.04	2.18	0.086	32.2

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRE
TOLERANCES ARE:

1 PLACE .X ± 0.4

2 PLACE .XX ± 0.25

3 PLACE .XXX ± 0.13

ANGLES EXCEPT 90° ± 1A

MAXIMUM SURFACE ROUGHNESS 125√

DRAWING NUMBER:

F-6010M05BII-03

MATERIAL:

FINISH:

DRAWN BY:

DAN

ENGINEER:

PART NUMBER:

F-6010M05BII-03

SHEET:

DATE DRAWN:

Aug - 24 -18

SCALE:

1 : 1



COFAN USA

1400 FULTON PLACE FREMONT CA 94539

FAN, 60x10mm, 5VDC 3600

RPM, w/Tach, Conn, 2 Ball Bearing.

100K+ Hrs MTBF

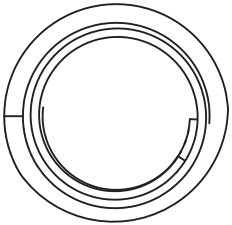
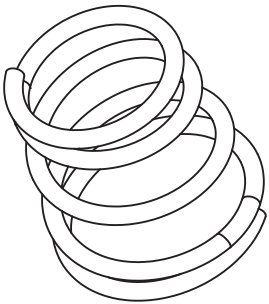
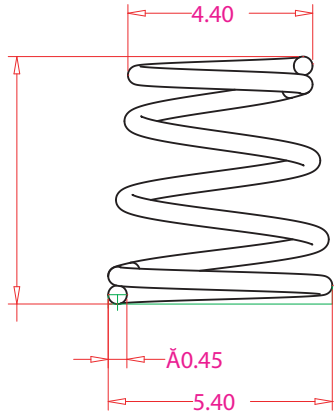
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REVISION HISTORY

REV	DESCRIPTION	DRWN	CHK'D	APPVD	DATE
—	—	—	—	—	—

NOTES

1. MATERIAL: STEEL MUSIC WIRE
2. FINISH: NICKEL PLATED
3.  IS CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.



RoHS
Compliant
2002/95/EC

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TOLERANCES ARE:
1 PLACE .X ± 0.4
2 PLACE .XX ± 0.25
3 PLACE .XXX ± 0.13
ANGLES EXCEPT 90° ± 1A
MAXIMUM SURFACE ROUGHNESS 3.2

MATERIAL: 1	CUSTOMER DRAWING NUMBER: -	 1400 FULTON PL. UNIT A FREMONT CA 94539		
FINISH: 2	CUSTOMER PART NUMBER: -	NAME: SPRING		
DRAWN BY: Ajie	COFAN USA PART NUMBER: 50-1032	SCALE: NONE	CUS REV: -	COF REV: 01
APPR BY:	COFAN CHINA PART NUMBER: 56.01.00006	SHEET: 1 OF 1	DATE DRAWN: Apr-21-2006	

8
7
6
5
4
3
2
1

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NOTES

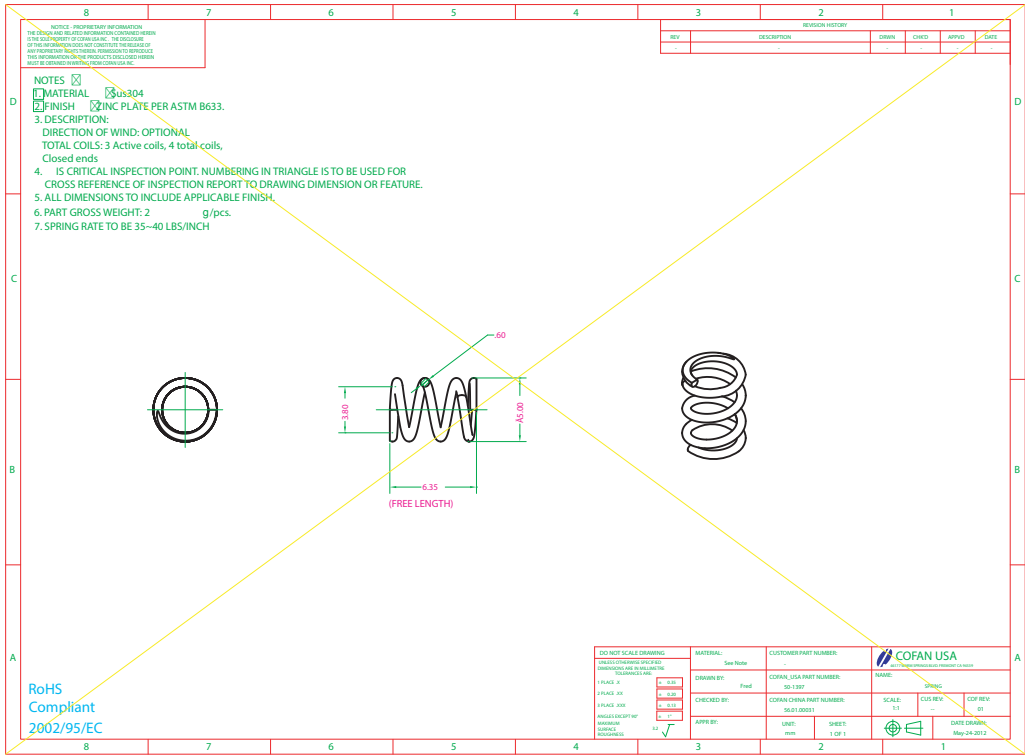
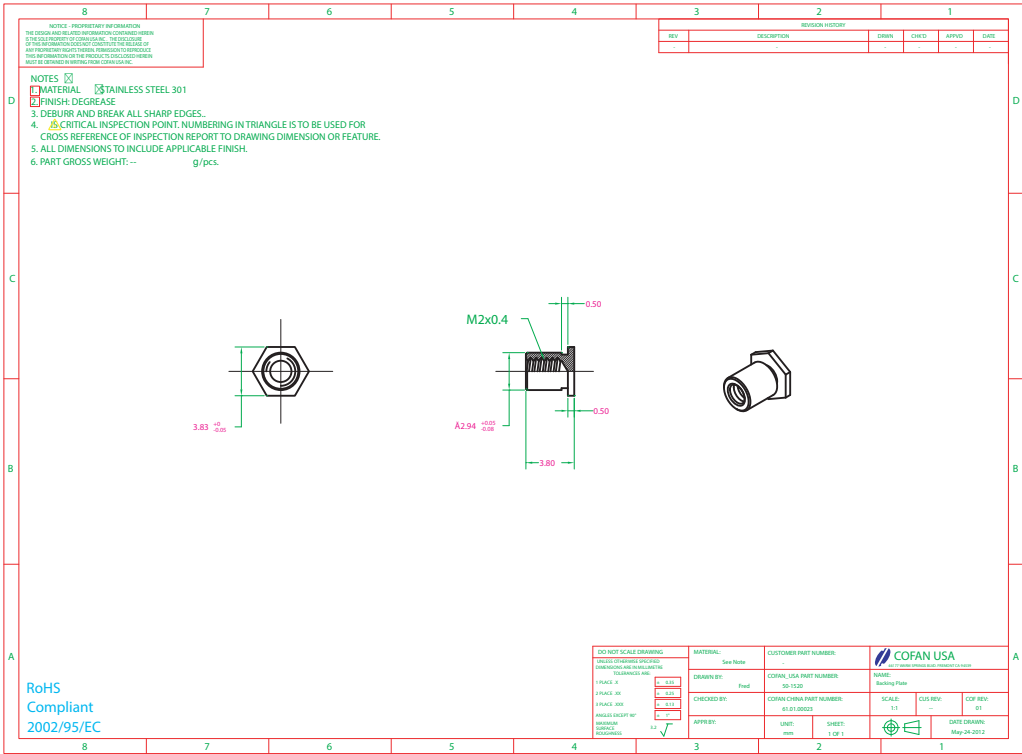
1. MATERIAL: STEEL
2. FINISH: NICKEL PLATE.
3. DEBURR AND BREAK ALL SHARP EDGES.
4. CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.
5. ALL DIMENSIONS TO INCLUDE APPLICABLE FINISH.
6. PART GROSS WEIGHT: -- g/pcs.

8
7
6
5
4
3
2
1

RoHS
Compliant
2002/95/EC

DO NOT SCALE DRAWING		MATERIAL:		CUSTOMER PART NUMBER:			
PROJECT/ENGINEER/DESIGNER/DATE: 10/10/2012		See Note		-		COFAN USA PART NUMBER 404-0001	
DRAWN BY: Fred		Steel		NAME: INSULATOR SCREW		SCALE: 1:1 CUS REV: -- COF REV: 01	
CHECKED BY:		COFAN CHINA PART NUMBER: 6003204912		APPROV BY: Mike		UNIT: mm SHEET: 1 OF 1	
DATE DRAWDG: 10-10-2012							

8	7	6	5	4	3	2	1																							
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REVISION HISTORY																														
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Rev 03 Rev 03																														
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	8	7	6	5	4	3	2	1																
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REV	DESCRIPTION	DESIGN	CMO	APPROV	DATE																			
1																								
	NOTES ☒ MATERIAL ☒ Black Nylon washer ☐ FINISH: N/A 3. DEBURR AND BREAK ALL SHARP EDGES. 4. ☒ CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE. 5. ALL DIMENSIONS TO INCLUDE APPLICABLE FINISH. 6. PART GROSS WEIGHT: -- g/pcs.																							
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A	RoHS Compliant 2002/95/EC					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"> DO NOT SCALE DRAWING SELECT STANDARD SPECIFIED DIMENSIONS AND TOLERANCES QUANTITIES ARE: </td> <td colspan="2"> MATERIAL: See Note DRAWN BY: Fred CHECKED BY: </td> <td colspan="2"> CUSTOMER PART NUMBER: -- COFAN, USA PART NUMBER: 30-1441 COFAN CHINA PART NUMBER: SS-02-00014 </td> <td colspan="2"> COFAN USA 3000 W. Highway 101, P.O. Box 10101, San Jose, CA 95128 NAME: WASHER SCALE: 1:1 CUS REV: -- COP REV: 01 </td> </tr> <tr> <td colspan="2"> 1 PLACE, X: 0.01 2 PLACE, X: 0.02 3 PLACE, X: 0.005 ANGLES EXCEPT 90°: HOLE DIA: 0.015 HOLE DIA: 0.015 HOLE DIA: 0.015 </td> <td colspan="2"> 1.2 $\sqrt{}$ </td> <td colspan="2"> DATE: 11/11/11 SHEET: 1 OF 1 </td> <td colspan="2"> DATE DRAWING: May-26-2012 </td> </tr> </table>			DO NOT SCALE DRAWING SELECT STANDARD SPECIFIED DIMENSIONS AND TOLERANCES QUANTITIES ARE:		MATERIAL: See Note DRAWN BY: Fred CHECKED BY:		CUSTOMER PART NUMBER: -- COFAN, USA PART NUMBER: 30-1441 COFAN CHINA PART NUMBER: SS-02-00014		COFAN USA 3000 W. Highway 101, P.O. Box 10101, San Jose, CA 95128 NAME: WASHER SCALE: 1:1 CUS REV: -- COP REV: 01		1 PLACE, X: 0.01 2 PLACE, X: 0.02 3 PLACE, X: 0.005 ANGLES EXCEPT 90°: HOLE DIA: 0.015 HOLE DIA: 0.015 HOLE DIA: 0.015		1.2 $\sqrt{}$		DATE: 11/11/11 SHEET: 1 OF 1		DATE DRAWING: May-26-2012	
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	8	7	6	5	4	3	2	1																

8 7 6 5 4 3 2 1

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NOTES:
1. MATERIAL: ☒ alrod TPCM 585.
2. FINISH:
3. DEBURR AND BREAK ALL SHARP EDGES.
4. ☒ CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.
5. ALL DIMENSIONS TO INCLUDE APPLICABLE FINISH.
6. PART GROSS WEIGHT: -- g/pcs.

18.20

9.93

0.13

Pull Tab

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES ARE:

F-PLACE A	± 0.13
F-PLACE B	± 0.13
F-PLACE C	± 0.13
ANGLES EXCEPT 90°	± 0.13
MINIMUM HATCHING	1:1

1:1

MATERIAL: See Note		CUSTOMER PART NUMBER: -		COFAN USA	
DRAWN BY: Fred		COFAN USA PART NUMBER: -		NAME: FPO	
CHECKED BY: SurfW		COFAN CHINA PART NUMBER: 70.01.011.13		SCALE: 1:1	
APPR BY:		UNITS: mm		SHEET: 1 OF 1	
				DATE DRAWN: Aug-20-2018	

8 7 6 5 4 3 2 1

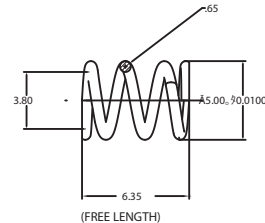
Based on Efunda Spring Rate Calculator:

Diameter of spring wire, d: .65mm
Outer diameter of spring, Outer: 6.35 5mm
Free length of spring, Lfree: 6.35
Number of active coils, na: 3
Youngs modulus of material, E: 30000000psi
Poisson ratio of material, n: .3
Density of material, r:
Answers
Spring constant, k: 41.0 lbf/in
Maximum load possible, Fmax: 0.889 lbf
Maximum shear stress possible, tmax: 28.3 ksi
Maximum displacement possible, Ldef: 0.0217 in
Length of wire required to make spring: 2.70 in
Solid height: 0.129 in
Distance between coils in free spring: 0.0499 in
Rise angle of coils: 5.30 deg
Lowest spring resonant frequency, fres: 3250 Hz
Shear modulus of material, G: 79.6 GPa
Mass of spring: 1.70 x 10-4 kg

RoHS
Compliant
2002/95/EC

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- NOTES ☒ ☒ ☒
1. MATERIAL ☒us304
2. FINISH ☒INC PLATE PER ASTM B633.
3. DESCRIPTION:
DIRECTION OF WIND: OPTIONAL
TOTAL COILS: 2 Active coils, 4 total coils,
Closed ends
4. ☒ CRITICAL INSPECTION POINT. NUMBERING IN TRIANGLE IS TO BE USED FOR
CROSS REFERENCE OF INSPECTION REPORT TO DRAWING DIMENSION OR FEATURE.
5. ALL DIMENSIONS TO INCLUDE APPLICABLE FINISH.
6. PART GROSS WEIGHT: 2 g/ea
7. SPRING RATE TO BE 41.13 LBS/INCH
8. SOLID HEIGHT: 2.4mm



DO NOT SCALE DRAWING		NAME: DATE:		CUSTOMER DRAWING NUMBER:		COFAN USA	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		DRAWN BY: Jun 10/12/07		CUSTOMER PART NUMBER: [---]		NAME: SPRING	
1 PLACE .X .04		CHECKED BY:		CUSTOMER PART NUMBER: [---]		SCALE: CUS REV: COF REV:	
2 PLACE .XX .025		CHECKED BY:		COFAN DRAWING NUMBER: 50-1437		NONE 01 01	
3 PLACE .XXX .013		CHECKED BY:		COFAN PART NUMBER: 56.01.00102		SHEET: 1 OF 1 DATE DRAWN: Sept-26-2008	
ANGLES EXCEPT 90° .5°		APPR BY:					
MAXIMUM SURFACE FINISH: 6.3							