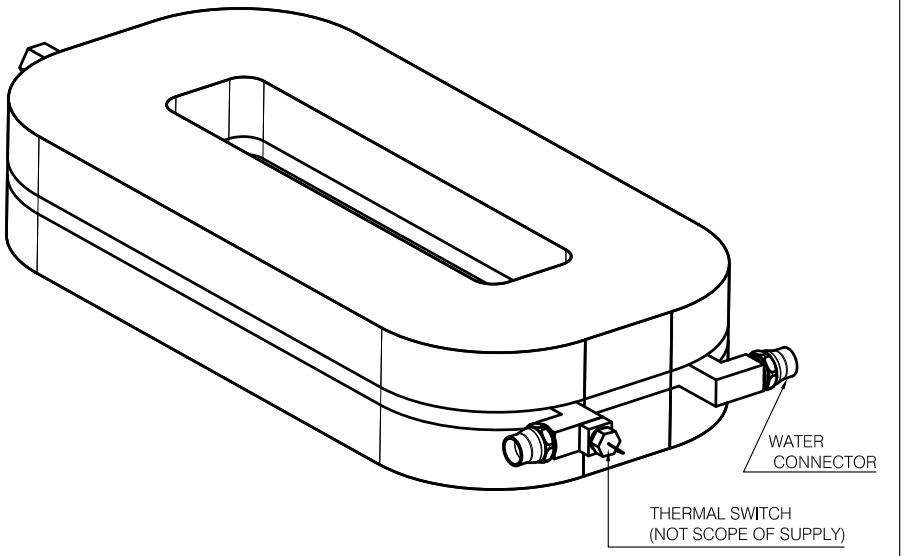
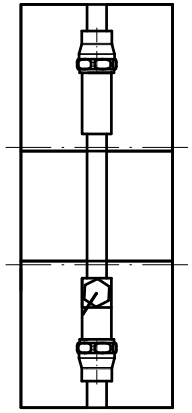
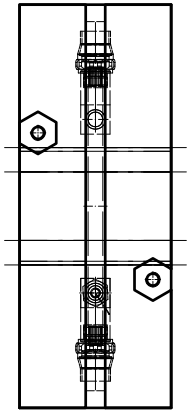
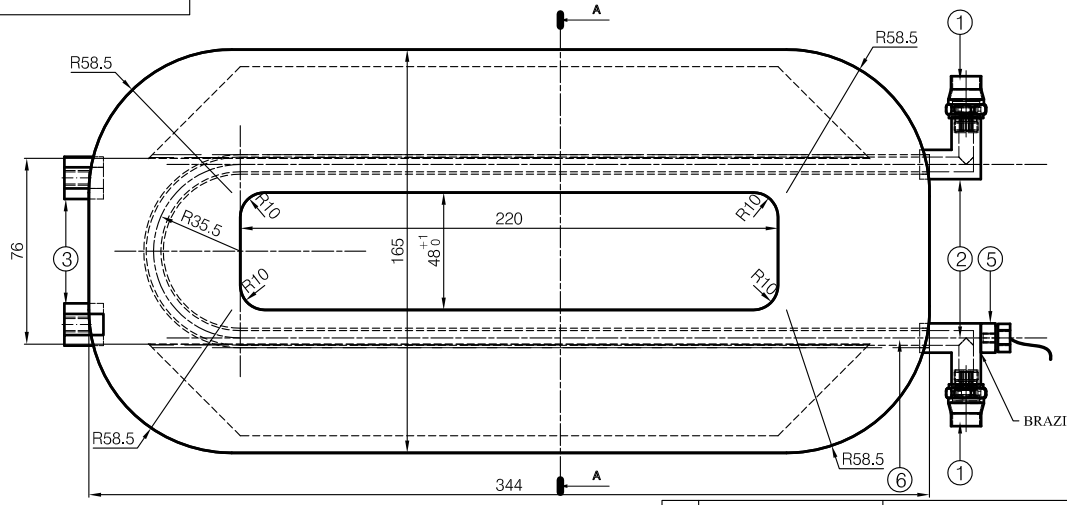
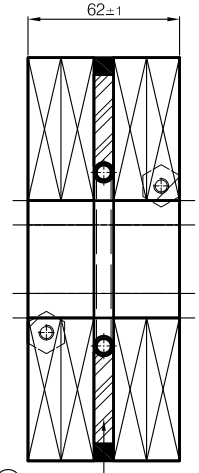







| SR. | PART NAME | RAW MATL. SIZE / DRG. NO. | MATL. | QTY./SET | REMARKS |
|---|---|---|---|---|---|
| 6 | cooling tube | as reqd. | copper | 1 | |
| 5 | thermal switch holder | ATDMS-QPOLE-MCP-00-01-004 | — | | |
| 4 | cooling plate | ATDMS-QPOLE-MCP-00-01-003 | — | | |
| 3 | electrical connector | ATDMS-QPOLE-MCP-00-01-002 | — | | |
| 2 | water header | ATDMS-QPOLE-MCP-00-01-001 | — | | |
| 1 | water connector | push In connector legrls part no 3801_08_10_01 | std. | 2 | |

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
VARIABLE ENERGY CYCLOTRON CENTRE
BIDHAN NAGAR, KOLKATA - 700 064

DRG. NAME :- COIL ASS'Y

ASSEMBLY :- MCP QUADRUPOLE ASS'Y

SCALE 1 : 1.5

SHEET 1 OF 1

OLD REF. DRG.

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED SHOULD CONFORM TO IS:2102 VIZ:(FINE CLASS) FOR MACHINED WORK DIMENSIONS.

| LINEAR DIMENSIONS | | | |
|---|---|---|---|
| UPTO | 6 | ± 0.05 |
| 6 | 30 | ± 0.10 |
| 30 | 120 | ± 0.15 |
| 120 | 400 | ± 0.20 |
| 400 | 1000 | ± 0.30 |
| 1000 | 2000 | ± 0.50 |

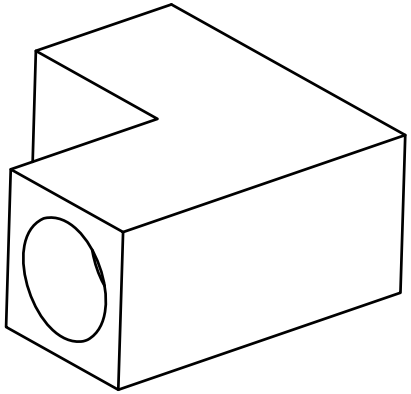
| LENGTH OF SHORTER SIDE OF ANGLE | | | |
|---|---|---|---|
| 0 | 6 | ± 1.0° |
| 6 | 30 | ± 0.5° |
| 30 | 120 | ± 0.2° |
| 120 | 400 | ± 0.1° |

SURFACE FINISH IN MICRONS: 3.2

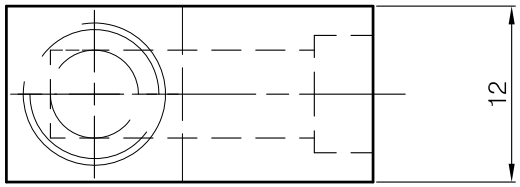
NOTES: 1. IF IN DOUBT ASK.
2. ALL DIMENSIONS ARE IN MM, OTHERWISE STATED.
3. REMOVE SHARP CORNERS AND BURRS.

| | | | |
|---|---|---|---|
| DRN. BY | S.PATRA | CHKD : --- | APPD : --- |
| DATE | 03.06.2021 | | |
| DESIGN: --- | | DRG. NO.: A2-ATDMS-QPOLE-MCP-00-01 | REV. 0 |

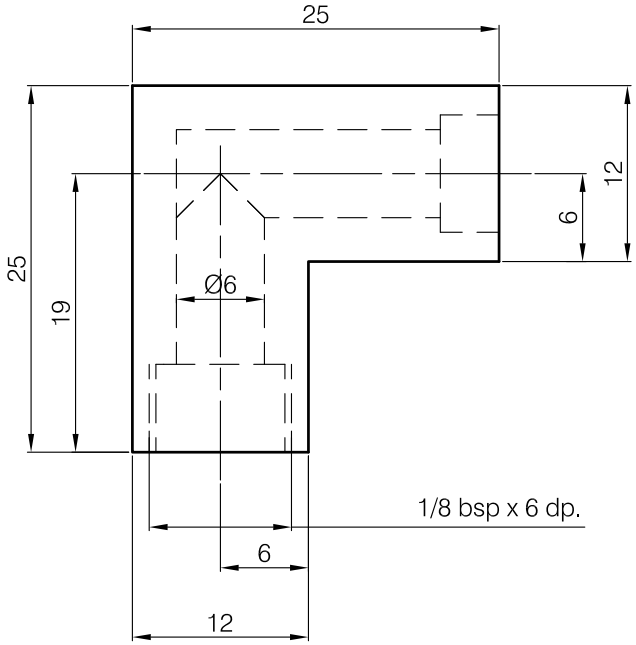
General tol. on cast dimensions:+/-1.5 mm



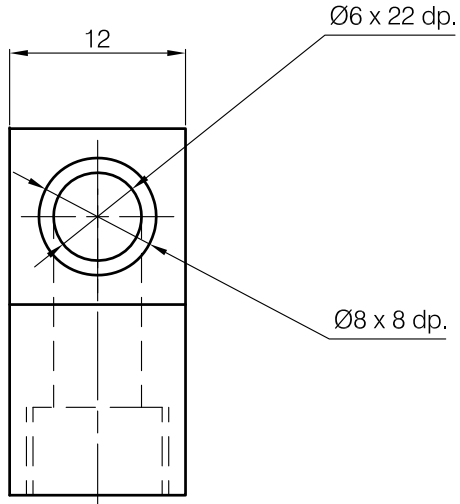
ISOMETRIC VIEW




top view




front view




side view

| SR. | PART NAME | RAW MATL. SIZE / DRG. NO. | MATL. | QTY./SET | REMARKS |
|---|---|---|---|---|---|
| | WATER HEADER | | PHOSPHOR BRONZE | 2 | |

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
VARIABLE ENERGY CYCLOTRON CENTRE
BIDHAN NAGAR, KOLKATA - 700 064

DRG. NAME :- WATER HEADER — SCALE 2 : 1

ASSEMBLY :- COIL ASS'Y — SHEET 1 OF 1

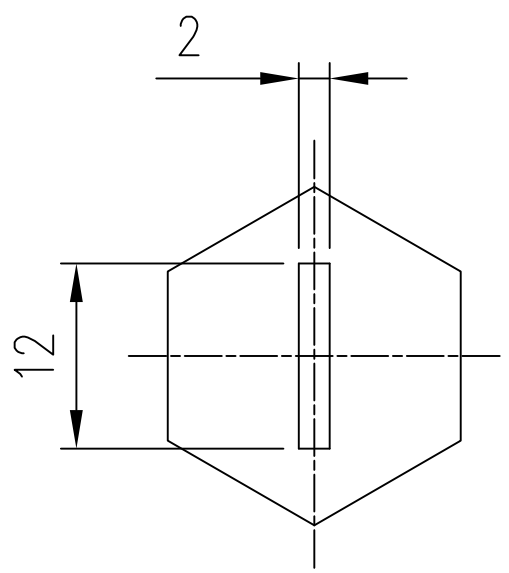
OLD REF. DRG.

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED SHOULD CONFORM TO IS:2102 VIZ:(FINE CLASS) FOR MACHINED WORK DIMENSIONS.

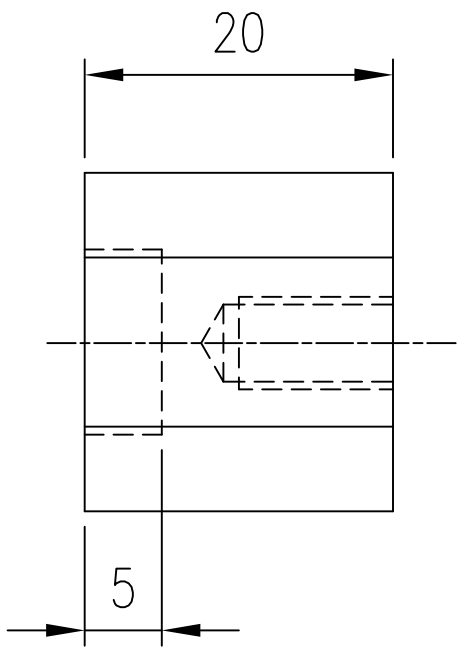
| LINEAR DIMENSIONS | | | | LENGTH OF SHORTER SIDE OF ANGLE | | | | SURFACE FINISH IN MICRONS |
|---|---|---|---|---|---|---|---|---|
| UPTO | - | 6 | ± 0.05 | 0 | - | 6 | ± 1.0° | 3.2 |
| 6 | - | 30 | ± 0.10 | 6 | - | 30 | ± 0.3° | |
| 30 | - | 120 | ± 0.15 | 30 | - | 120 | ± 0.2° | |
| 120 | - | 400 | ± 0.20 | 120 | - | 400 | ± 0.1° | |
| 400 | - | 1000 | ± 0.30 | | | | | |
| 1000 | - | 2000 | ± 0.50 | | | | | |

NOTES: 1. IF IN DOUBT ASK.
2. ALL DIMENSIONS ARE IN MM, OTHERWISE STATED.
3. REMOVE SHARP CORNERS AND BURRS.

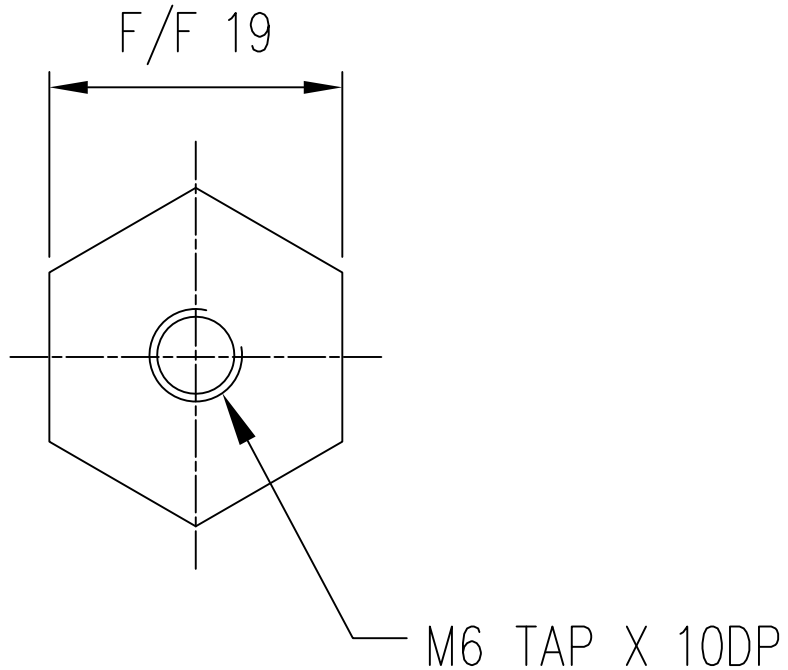
| DRN. BY | S.PATRA | CHKD : | APPD : |
|---|---|---|---|
| DATE | 03.06.2021 | --- | --- |
| DESIGN : | --- | DRG. NO. : A4-ATDMS-QPOLE-MCP-00-01-001 | REV. 0 |




L.H.S. VIEW




FRONT VIEW




R.H.S. VIEW

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | TOTAL WEIGHT | | | |
| | ELECTRICAL CONNECTOTR | | BRASS | 2 | | |
| SR. | PART NAME | MATL. SIZE / DRG. NO. | MATL. | QTY. | WT.(KG.) | REMARKS |

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY

# VARIABLE ENERGY CYCLOTRON CENTRE

BHIDHAN NAGAR, KOLKATA - 700 064

DRG. NAME : ELECTRICAL CONNECTOR

SCALE 2:1

ASSEMBLY [Z] : COIL ASEMBLY

SHEET : 01 A3

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED SHOULD CONFORM TO IS:2102 VIZ:(FINE CLASS) FOR MACHINED WORK DIMENSIONS.

| DRN. BY | S.GAYEN | CHKD : | APPD : |
|---|---|---|---|
| DATE | 04.06.2021 | C.NANDI | |

LINEAR DIMENSIONS

| | | |
|---|---|---|
| UPTO | – 6 | ±0.05 |
| 6 | – 30 | ±0.1 |
| 30 | – 120 | ±0.15 |
| 120 | – 400 | ±0.2 |
| 400 | – 1000 | ±0.3 |
| 1000 | – 2000 | ±0.5 |

LENGTH OF SHORTER SIDE OF ANGLE

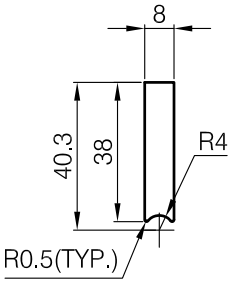
| | | | |
|---|---|---|---|
| 1 | – 6 | ± | 1° |
| 6 | – 30 | ± | 0.30° |
| 30 | – 120 | ± | 0.20° |
| 120 | – 400 | ± | 0.10° |

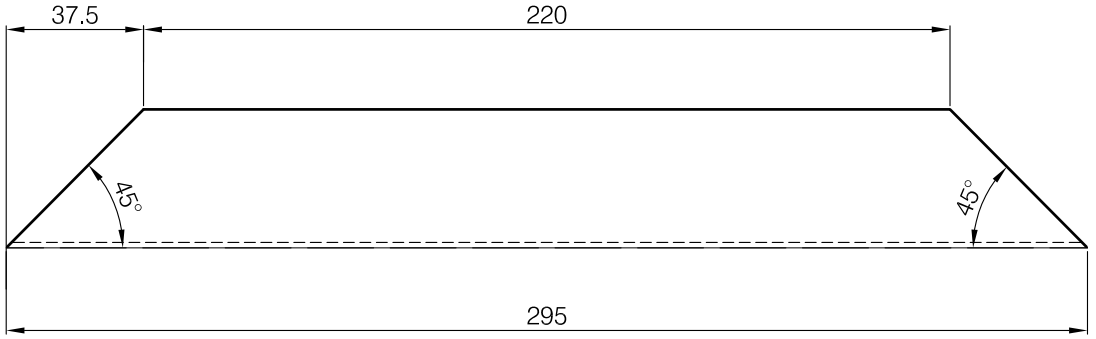
SURFACE FINISH IN MICRONS 0.8

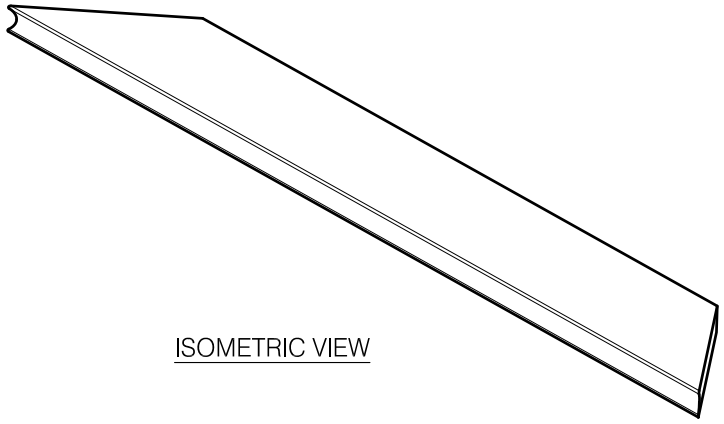
CHAMFER : 0.5 x 45°

NOTES :
1. IF IN DOUBT ASK. 2. ALL DIMENSIONS ARE IN MILIMITRES.
3. REMOVE SHARP CORNERS AND BURRS.

| DESIGN : | DRG. NO. : | REV. |
|---|---|---|
| C.NANDI | A3/ATDMS/QPOLE/MCP-00-01-02 | 0 |



ISOMETRIC VIEW

| SR. | PART NAME | RAW MATL. SIZE / DRG. NO. | MATL. | QTY./SET | REMARKS |
|---|---|---|---|---|---|
| | COOLING PLATE | | COPPER(ETP) | 2 | |

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
VARIABLE ENERGY CYCLOTRON CENTRE
BIDHAN NAGAR, KOLKATA - 700 064

DRG. NAME :- COOLING PLATE
ASSEMBLY :- COIL ASS'Y

SCALE 1 : 1.5
SHEET 1 OF 1

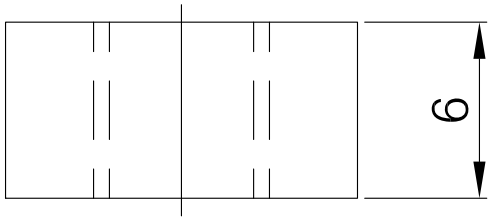
OLD REF. DRG.

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED SHOULD CONFORM TO IS:2102 VIZ:(FINE CLASS) FOR MACHINED WORK DIMENSIONS.

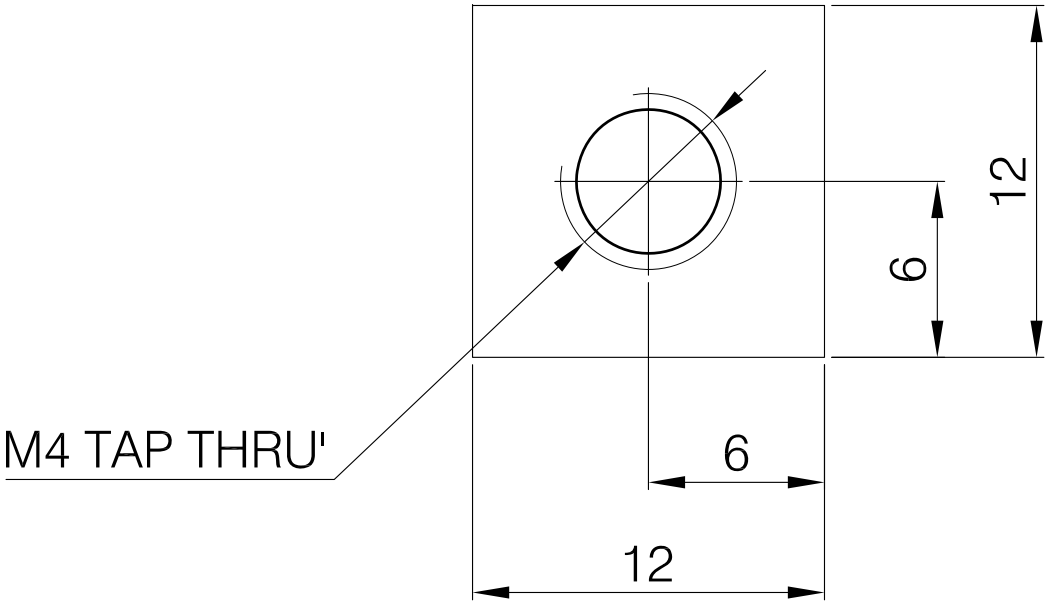
| LINEAR DIMENSIONS | | | | LENGTH OF SHORTER SIDE OF ANGLE | | | | SURFACE FINISH IN MICRONS |
|---|---|---|---|---|---|---|---|---|
| UPTO | - | 6 | ± 0.05 | 0 | - | 6 | ± 1.0° | 3.2 |
| 6 | - | 30 | ± 0.10 | 6 | - | 30 | ± 0.3° | |
| 30 | - | 120 | ± 0.15 | 30 | - | 120 | ± 0.2° | |
| 120 | - | 400 | ± 0.20 | 120 | - | 400 | ± 0.1° | |
| 400 | - | 1000 | ± 0.30 | | | | | |
| 1000 | - | 2000 | ± 0.50 | | | | | |

NOTES: 1. IF IN DOUBT ASK.
2. ALL DIMENSIONS ARE IN MM, OTHERWISE STATED.
3. REMOVE SHARP CORNERS AND BURRS.

| DRN. BY | S.PATRA | CHKD : | APPD : |
|---|---|---|---|
| DATE | 03.06.2021 | --- | --- |
| DESIGN: | --- | DRG. NO.: A2-ATDMS-QPOLE-MCP-00-01-003 | REV. 0 |




top view




front view

| SR. | PART NAME | RAW MATL. SIZE / DRG. NO. | MATL. | QTY./SET | REMARKS |
|---|---|---|---|---|---|
| | THERMAL SWITCH HOLDER | | COPPER | 1 | |

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
VARIABLE ENERGY CYCLOTRON CENTRE
BIDHAN NAGAR, KOLKATA - 700 064

DRG. NAME :- THERMAL SWITCH HOLDER — SCALE 2 : 1

ASSEMBLY :- COIL ASS'Y — SHEET 1 OF 1

OLD REF. DRG.

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED SHOULD CONFORM TO IS:2102 VIZ:(FINE CLASS) FOR MACHINED WORK DIMENSIONS.

| LINEAR DIMENSIONS | | | | LENGTH OF SHORTER SIDE OF ANGLE | | | | SURFACE FINISH IN MICRONS |
|---|---|---|---|---|---|---|---|---|
| UPTO | - | 6 | ± 0.05 | 0 | - | 6 | ± 1.0° | 3.2 |
| 6 | - | 30 | ± 0.10 | 6 | - | 30 | ± 0.3° | |
| 30 | - | 120 | ± 0.15 | 30 | - | 120 | ± 0.2° | |
| 120 | - | 400 | ± 0.20 | 120 | - | 400 | ± 0.1° | |
| 400 | - | 1000 | ± 0.30 | | | | | |
| 1000 | - | 2000 | ± 0.50 | | | | | |

NOTES: 1. IF IN DOUBT ASK.
2. ALL DIMENSIONS ARE IN MM, OTHERWISE STATED.
3. REMOVE SHARP CORNERS AND BURRS.

| DRN. BY | S.PATRA | CHKD : | APPD : |
|---|---|---|---|
| DATE | 03.06.2021 | --- | --- |
| DESIGN : | --- | DRG. NO. : A4-ATDMS-QPOLE-MCP-00-01-004 | REV. 0 |