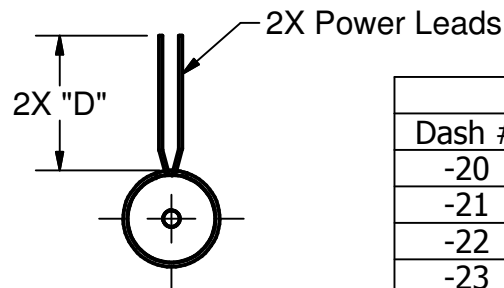
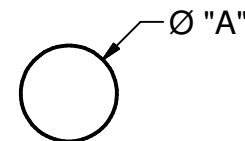
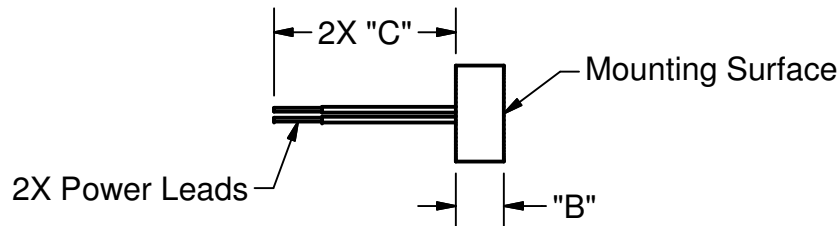


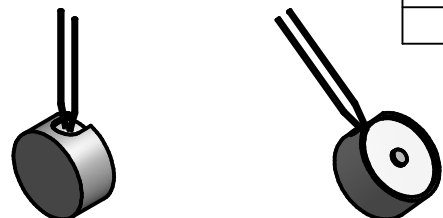


REVISION HISTORY

| REV | DESCRIPTION | DATE | APPROV |
|-----|--------------------------|----------|--------|
| A | Added -26. | 2/6/04 | MC |
| A1 | Added -27. | 1/13/06 | MC |
| A2 | Added -20. | 6/3/11 | MC |
| B | Revised -21 & added BOM. | 8/16/12 | MC |
| B1 | Added -28. | 9/6/12 | MC |
| B2 | Redrawn and added -29. | 11/27/12 | MC |



Radially Exiting Leads Shown Here



| Dash # | Description | Material | "A" | "B" | "C" | "D" | Referance |
|--------|-------------------------|----------|-------|------|-----------|-----------|-----------|
| -20 | Ø.32 Heater | | Ø.32 | .14 | .50 Min. | - | 107871-01 |
| -21 | Ø.50 Heater | Ceramic | Ø.50 | .25 | 1.00 Min. | - | 107871-02 |
| -22 | Ø1.00 Heater | Ceramic | Ø1.00 | .30 | .75 Min. | - | 107871-03 |
| -23 | Ø2.00 Heater | | Ø2.00 | .28 | 1.00 Min. | - | 107871-04 |
| -24 | Ø3.00 Heater | | Ø3.00 | .30 | 1.00 Min. | - | 107871-05 |
| -25 | Ø4.50 Heater | | Ø4.50 | .30 | 1.00 Min. | - | 107871-06 |
| -26 | Ø.75 Heater | Ceramic | Ø.75 | .25 | .50 Min. | - | 107871-07 |
| -27 | Ø.50 Heater, 180° Leads | Ceramic | Ø.50 | 1.00 | .50 Min. | - | 107871-08 |
| -28 | Ø.50 Heater | Ceramic | Ø.50 | .25 | 2.00 Min. | - | 107871-09 |
| -29 | Ø.295 Heater | Metal | Ø.29 | .14 | - | 1.00 Min. | 107871-10 |

| | |
|------------------|------------|
| DRAWN mcurtis | 11/27/2012 |
| CHECKED | |
| QA | |
| MFG | |
| APPROVED | |
| Material: | |

HeatWave Labs, Inc. 195 Aviation Way, Suite 100 P: 831-722-9081
 Watsonville, CA 95076 F: 831-722-5491
 www.cathode.com

O2 Substrate Heater

| | | | |
|-----------|---------------------|------------------|-----------|
| SIZE A | Cage Code: 1YAN4 | DWG NO 101572 | REV B2 |
| SCALE 1X | | SHEET 1 OF 1 | |

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