

## PDF technical sheet HH221410



### Single row tapered roller bearings cup

| Product definition |          |
|--------------------|----------|
| D                  | 7.5000 " |
| C                  | 1.8125 " |
| Mass               | 7.76 oz  |
| Brand              | BOWER    |



#### Product performance

|                                 |        |
|---------------------------------|--------|
| Min operating temperature, Tmin | -40 °C |
| Max operating temperature, Tmax | 248 °C |



#### Abutment dimensions

|         |          |
|---------|----------|
| r1a max | 0.1299 " |
|---------|----------|

#### Calculation factors

##### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| $F_a / F_r \leq e$ |   | $F_a / F_r > e$ |    |
|--------------------|---|-----------------|----|
| X                  | Y | X               | Y  |
| 1                  | 0 | 0.4             | Y2 |

##### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 0.5   | Y0    |

If  $P_0 < F_r$ , then use  $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table