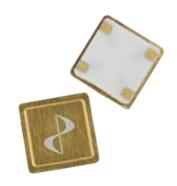
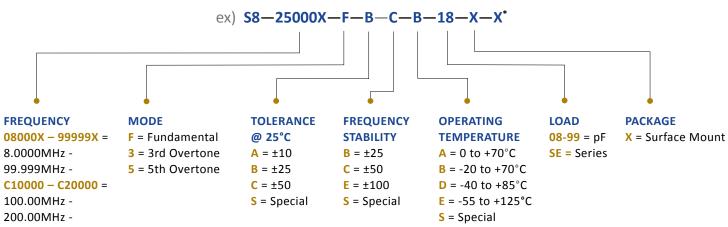
# **S8-Series Specifications**





### 8.00L x 8.00W x 2.45H (mm)

PDI S8-Series is a hermetically sealed quartz crystal in a surface mount package. This crystal, designed to meet your most demanding specification, is available in standard or custom frequencies and/or with customized parameters. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.



 $^{*}(X)$  for standard or assigned for custimization.

| Parameter                                 |                              | Mode                       |                     |                     |       |
|---|------------------------------|----------------------------|---------------------|---------------------|-------|
|   |                              | Fundamental                | 3rd Overtone        | 5th Overtone        | Units |
| Frequency Range <sup>*1</sup>             |                              | 8.0000 to 40.0000          | 40.0000 to 120.0000 | 60.0000 to 200.0000 | MHz   |
| Frequency Tolerance                       | @ +25°C                      | Per Option                 |                     |                     | ppm   |
| Temperature Range <sup>*1</sup>           | Operating                    | Per Option                 |                     |                     | °C    |
|   | Storage                      | - 55 to +125               |                     |                     | °C    |
| Frequency Stability*1                     | Over Operating Temperature   | Per Option                 |                     |                     | ppm   |
| Equivalent Series Resistance<br>(Maximum) | 8.000000 to 10.000000 MHz    | 80                         |                     |                     | Ω     |
|   | 10.000000 to 13.000000 MHz   | 60                         |                     |                     |       |
|   | 13.000000 to 20.000000 MHz   | 40                         |                     |                     |       |
|   | 20.000000 to 30.000000 MHz   | 30                         |                     |                     |       |
|   | 25.000000 to 40.000000 MHz   | 60                         |                     |                     |       |
|   | 40.000000 to 60.000000 MHz   |                            | 50                  |                     |       |
|   | 60.000000 to 80.000000 MHz   |                            | 60                  |                     |       |
|   | 80.000000 to 120.000000 MHz  |                            | 70                  |                     |       |
|   | 60.000000 to 100.000000 MHz  |                            |                     | 80                  |       |
|   | 100.000000 to 150.000000 MHz |                            |                     | 90                  |       |
|   | 125.000000 to 200.000000 MHz |                            |                     | 100                 |       |
| Drive Level (Typical)                     |                              | 100                        |                     | uW                  |       |
| Shunt Capacitance (Maximum)               |                              | 7.0                        |                     | pF                  |       |
| Load Capacitance (Typical)                |                              | Per Option                 |                     | pF                  |       |
| Aging (Maximum)                           | Per Year                     | ±3.0                       |                     | ppm                 |       |
| Seal Method                               |                              | Resistance Weld            |                     |                     |       |
| Insulation Resistance                     |                              | 500MΩ Minimum @100Vdc ±15V |                     |                     |       |

<sup>\*1 -</sup> Not all Frequency/Stability/Temperature combinations are available.

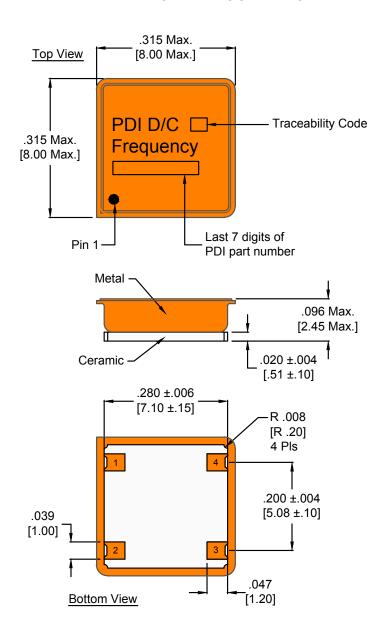
| REV: NA SIZE: A CAGE: A 1 of 2 |
|--------------------------------|
|--------------------------------|



## **S8-Series 8.00 x 8.00 x 2.45** (mm)

#### PACKAGE DIMENSIONS

Decimal XXX =  $\pm$  .008, XX =  $\pm$  .02 Metric [XXX =  $\pm$  .20], [XX =  $\pm$  .50]











#### NOTES:

Terminals are Au.

Other options are available, please consult factory.

All product is supplied *RoHS* and *REACH* compliant.

Product can be supplied on Tape and Reel, on reels of 1,000 units.

Specifications subject to change without notice, last updated 4/1/13.

| rev: <b>NA</b> | SIZE: A | CAGE: A | <b>2</b> of <b>2</b> |
|----------------|---------|---------|----------------------|
|----------------|---------|---------|----------------------|