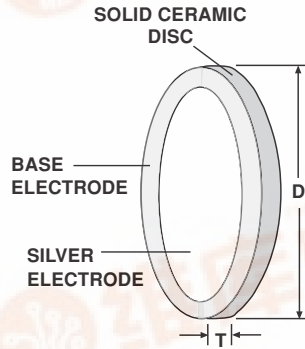




## 307C Motorstart Thermistors

Vishay Cera-Mite

### PTCR Motor Start Pellets



Vishay Cera-Mite offers a complete line of PTCR motor start pellets designed for OEM pressure contact mounting. Compressor and refrigerator manufacturers, as well as selected HVAC after-market distributors have chosen to design and build their own proprietary motor start devices. Such cost effective units allow for unique mounting styles, special terminal arrangements, and combination devices including start capacitors or overload protectors.

#### FOR USE IN:



Motor Start Relays



Combination Assemblies

#### APPLICATION DATA

- Complete range of size/resistance combinations for 120 and 240 volt compressor motors.
- Rugged silver electrodes well suited for long life pressure contact mounting.
- Withstand voltage is 2 times Voltage Max. rating.
- Application engineering assistance provided for custom pellet designs.

#### PTCR MOTOR START PELLETS

| RESISTANCE             |                         | VOLTAGE                  | CURRENT                  | DIAMETER (D) x     | PART      |
|------------------------|-------------------------|--------------------------|--------------------------|--------------------|-----------|
| R <sub>25</sub> (OHMS) | R <sub>DYN</sub> (OHMS) | MAX. (V <sub>RMS</sub> ) | MAX. (A <sub>RMS</sub> ) | THICKNESS (T) (mm) |           |
| 5                      | 4                       | 200                      | 10                       | 16 x 2.5           | 307C1674* |
| 5.5                    | 4.2                     | 180                      | 12                       | 16 x 2.5           | 307C1670  |
| 6.8                    | 5                       | 200                      | 10                       | 16 x 2.5           | 307C1700* |
| 8                      | 5.8                     | 150                      | 10                       | 16 x 2.5           | 307C1280  |
| 10                     | 7.2                     | 200                      | 10                       | 16 x 2.5           | 307C1711* |
| 10                     | 7.2                     | 200                      | 10                       | 16 x 2.5           | 307C1713  |
| 20                     | 13.5                    | 250                      | 7.5                      | 16 x 2.5           | 307C1490  |
| 47                     | 30                      | 300                      | 6.5                      | 16 x 2.5           | 307C1136  |
| 68                     | 42                      | 300                      | 5.5                      | 16 x 2.5           | 307C1043  |
| 4                      | 3.2                     | 180                      | 15                       | 17.5 x 2.5         | 307C1614  |
| 5                      | 4                       | 180                      | 12                       | 17.5 x 2.5         | 307C1668  |
| 6.8                    | 5                       | 200                      | 10                       | 17.5 x 2.5         | 307C1644  |
| 10                     | 7.2                     | 200                      | 10                       | 17.5 x 2.5         | 307C1651  |
| 15                     | 10.5                    | 265                      | 6                        | 17.5 x 2.5         | 307C1190  |
| 20                     | 13                      | 320                      | 8                        | 17.5 x 2.5         | 307C1720  |
| 25                     | 17                      | 300                      | 7.5                      | 17.5 x 2.5         | 307C1066  |
| 33                     | 22                      | 300                      | 6.5                      | 17.5 x 2.5         | 307C1040  |
| 47                     | 30                      | 350                      | 4                        | 17.5 x 2.5         | 307C1284  |
| 68                     | 42                      | 400                      | 4                        | 17.5 x 2.5         | 307C1283  |
| 3.3                    | 2.6                     | 160                      | 12                       | 20 x 2.5           | 307C1411  |
| 4.7                    | 3.5                     | 180                      | 12                       | 20 x 2.5           | 307C1484  |
| 5.6                    | 4.1                     | 180                      | 12                       | 20 x 2.5           | 307C1544  |
| 6.8                    | 5                       | 200                      | 10                       | 20 x 2.5           | 307C1399  |
| 10                     | 7.2                     | 230                      | 9                        | 20 x 2.5           | 307C1489  |
| 12                     | 8.5                     | 250                      | 8.5                      | 20 x 2.5           | 307C1476  |
| 15                     | 10.5                    | 300                      | 8                        | 20 x 2.5           | 307C1530  |
| 22                     | 15                      | 400                      | 8                        | 20 x 2.5           | 307C1531  |
| 33                     | 22                      | 355                      | 6                        | 20 x 2.5           | 307C1282  |
| 47                     | 30                      | 400                      | 5                        | 20 x 2.5           | 307C1533  |
| 68                     | 42                      | 430                      | 4                        | 20 x 2.5           | 307C1292  |
| 3.9                    | 3 (@ 50V)               | 175                      | 16                       | 20 x 3.2           | 307C1487  |
| 12                     | 10.3 (@ 100V)           | 350                      | 8                        | 20 x 3.2           | 307C1529  |
| 14                     | 12 (@ 100V)             | 350                      | 8                        | 20 x 3.2           | 307C1545  |
| 30                     | 15.9 (@ 240V)           | 380                      | 12                       | 20 x 3.2           | 307C1640  |
| 25                     | 18 (@ 240V)             | 400                      | 9                        | 20 x 5.0           | 307C1518  |
| 38                     | 25 (@ 240V)             | 400                      | 9                        | 20 x 5.0           | 307C1024  |
| 50                     | 35 (@ 240V)             | 400                      | 7.5                      | 20 x 5.0           | 307C1409  |
| 75                     | 50 (@ 240V)             | 400                      | 5.5                      | 20 x 5.0           | 307C1410  |

R<sub>25</sub> = zero power resistance  $\pm 30\%$  at 25°C; other tolerances available.

R<sub>DYN</sub> = nominal dynamic (effective) resistance, 120V applied unless otherwise noted.

\*High performance ceramic formulation, lower transition temperature provides reduced power consumption for energy conscious applications.

**Note:** All motor start pellets receive 100% resistance and 100% voltage pulse burn-in simulating actual motor start-up.

**Note:** Selected pellets carry UL recognition per File E107611.

**Note:** Usage requires packaging materials appropriate for maximum pellet surface temperature of 180°C.

