GENERAL PURPOSE 1W TO 25W CERAMIC-ENCASED RESISTORS

PW SERIES

- Low cost and the industry's broadest selection!
- Available from stock in popular sizes (5W & 10W, 0.1Ω to 5K) and selected values in other sizes; non-stock items are available on exclusive SWIFT delivery program
- Tolerance to ±0.05%, TCR to ±5 ppm/°C
- Wide resistance range: 0.05Ω to 1MΩ
- Tape & Reel available up to 10W size (Opt.A not avail. on T&R)

OPTIONS

- Option X: Non-inductive (PW5X & smaller: ≤50Ω ≤0.2uH max, >50Ω: 370uH max; PW7X & larger: ≤50Ω ≤0.3uH max, >50Ω ≤0.6uH max). Reduced inductance levels available
- Option T: Temp. sensitive (up to ±8000ppm/°C)
- Option P: Increased pulse capability
- Option FF: Fuse within 10S at 30x rated W 4 and within 45S to 1Meg
- Option B: Increased power
- Option A: Standoffs built into ceramic case
- Additional options available... burst-in, special marking, non-standard values, increased voltage, longer or heavier gauge leads, specialty lead material/plating/insulation, cut & formed leads, etc. Customized components are an RCD specialty!

PW resistors are designed for general purpose and semi-precision power applications. The fireproof ceramic construction provides excellent thermal conductivity and resistance to moisture & solvents. Typical marking is ‘RCD’, value, tol. & wattage (or type). The resistance element is wirewound on lower values, & power film on higher values depending on options (opt. P & T parts are always WW). If a specific construction is preferred, specify opt.WW or M (not avail. in all values).

APPLICATION NOTE #1: Resistor Comparison
Series PW resistors offer moderate performance levels at prices below that of other WW or film technologies. Other choices for medium power applications are Series PV resistors (2W to 10W, similar to PW in vertical package); Series 100 military grade WW (1/2W to 50W, offers improved performance, pulse capability, and reliability); Series RW (1W to 5W WW, offers space savings); and Series RSP/RMF power film (1/2W to 9W, offers reduced inductance).

APPLICATION NOTE #2: Temperature Rise
Power resistors reach elevated temperatures (typically 125° to 250°C) when operated at full wattage, so when utilizing above 50% power rating, the bodies should be mounted off the PCB with adequate clearance from heat sensitive components. Opt. A standoffs are helpful in preventing heat transfer to PCB.

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FAA04Q: Sale of this product is in accordance with GF-061. Specifications subject to change without notice.