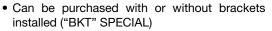


Vishay Huntington

Wirewound Resistors, Commercial High Power, Quick Connect Terminals



FEATURES





 Solder tag terminals are standard, quick connect terminals available

ROHS COMPLIANT HALOGEN FREE

- High power ratings
- Special inorganic potting compound and ceramic case provide high thermal conductivity in a fireproof package
- **GREEN** (5-2008)
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | |
|------------------------------------|-----------------------------------|---------------------------|------------------|--------------------------|--|
| GLOBAL MODEL | POWER RATING P _{40°C} W | RESISTANCE RANGE Ω | TOLERANCE ± % | WEIGHT (typical) g | |
| PC-30 | 30 | 1 to 2K | 5, 10 | 45 | |
| PC-40 | 40 | 1 to 2K | 5, 10 | 75 | |
| PC-50 | 50 | 1 to 2K | 5, 10 | 75 | |

| TECHNICAL SPECIFICATIONS | | | | |
|------------------------------------|-----------------|----------------------------------|--|--|
| PARAMETER | UNIT | PC QUICK CONNECT CHARACTERISTICS | | |
| Temperature Coefficient | ppm/°C | ± 300 | | |
| Short Time Overload | - | 10 x rated power for 5 s | | |
| Operating Temperature Range | °C | -55 to +275 | | |
| Dielectric Withstanding Voltage | V _{AC} | 1000 | | |
| Maximum Continuous Working Voltage | V | $(P \times R)^{1/2}$ | | |

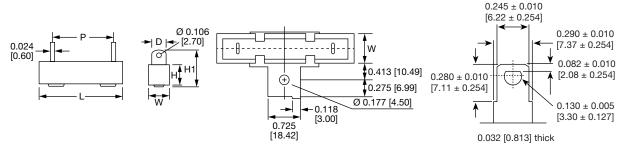
| GLOBAL PART NUMBER INFORMATION | | | | | |
|---|--|---------------------------------------|----------------------|----------------------|--|
| Global Part Numbering example: PC-3022R00KE66 (Visit www.vishay.net SAP Parts Manual for all options) | | | | | |
| P C - 3 0 2 2 R 0 0 K E 6 6 | | | | | |
| GLOBAL MODEL (5 digits) | VALUE (5 digits) | TOLERANCE (1 digit) | - | GING CODE digits) | SPECIAL (up to 3 digits) |
| PC-30 PC-40 PC-50 | \mathbf{R} = decimal \mathbf{K} = thousand 15R00 = 15 Ω 1K500 = 1.5 kΩ | J = ± 5 % K = ± 10 % | E66 = lead (F | Pb) free bulk pack | (dash number) from 1 to 999 as applicable BKT = solder tags, bracket QC = quick connect, no bracket BQC = quick connect, bracket |
| Historical Part Number example: PC-30-22-10 % PC-30 22 Ω 10 % | | | | | |
| FC-30 | | 22.77 | | 10 % | |
| HISTORICAL MODEL | | RESISTANCE VALUE | | TOLERANCE | |

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DIMENSIONS in inches [millimeters]

Quick connect terminal connections 0.250 [6.35]



Solder tag terminal dimensions shown (standard part and **-BKT** option).

Quick connect terminal dimensions for **-QC** and **-BQC** options.

| OLODAL | DIMENSIONS in inches [millimeters] | | | | | |
|-----------------|------------------------------------|---------------------|---------------------|----------------------------------|---------------------|--------------------|
| GLOBAL MODEL | W ± 0.050 [1.27] | H ± 0.050 [1.27] | L ± 0.079 [2.00] | H ₁ ± 0.125 [3.18] | P ± 0.079 [2.00] | D ± 0.02 [0.50] |
| PC-30 | 0.75 [19.00] | 0.75 [19.00] | 2.95 [75.00] | 1.14 [28.96] | 2.17 [55.00] | 0.30 [7.50] |
| PC-40 | 0.75 [19.00] | 0.75 [19.00] | 3.54 [90.00] | 1.14 [28.96] | 2.64 [67.00] | 0.30 [7.50] |
| PC-50 | 0.75 [19.00] | 0.75 [19.00] | 3.54 [90.00] | 1.14 [28.96] | 2.64 [67.00] | 0.30 [7.50] |

MATERIAL SPECIFICATIONS

Element: copper-nickel alloy or nickel-chrome alloy,

depending on resistance value

Core: high purity grade alumina ceramic rod

Body: steatite ceramic case with inorganic potting

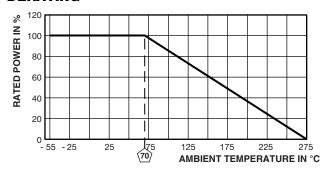
compound

Terminals: 100 % tin

Part Marking: HEI, model, wattage, value, tolerance, date

code

DERATING



| PERFORMANCE | | | | |
|---------------------|--|-------------|--|--|
| TEST | CONDITIONS OF TEST | TEST LIMITS | | |
| Short Time Overload | 10 x rated power for 5 s | ± 2 % ΔR | | |
| Load Life | 1000 h at rated power, +70 °C, 1.5 h "ON", 0.5 h "OFF" | ± 5 % ΔR | | |
| Temperature Cycle | -30 °C; ~85 °C for 5 cycles | ± 1 % ΔR | | |



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