



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**  
Element Type: **Thin Film**  
Package Size Code: **0402**  
Power Rating: **.063 W**  
Resistance Value: **68K  $\Omega$**

Features

Product Type Features

|                   |                    |
|-------------------|--------------------|
| Resistor Type     | Precision Resistor |
| Element Type      | Thin Film          |
| Package Size Code | 0402               |

Configuration Features

|                     |   |
|---------------------|---|
| Number of Resistors | 1 |
|---------------------|---|

Electrical Characteristics

|                             |                           |
|-----------------------------|---------------------------|
| Power Rating                | .063 W                    |
| Resistance Value            | 68K $\Omega$              |
| Resistance Class            | 1k $\Omega$ – 1M $\Omega$ |
| Passive Component Tolerance | .1 %                      |

Termination Features

|                                         |        |
|-----------------------------------------|--------|
| Surface Mount Resistor Termination Type | Solder |
| Number of Terminations                  | 2      |

Dimensions

|                |                |
|----------------|----------------|
| Product Height | .3 mm[.012 in] |
| Product Length | 1 mm[.039 in]  |
| Product Width  | .5 mm[.02 in]  |

Usage Conditions

|  |  |
|--|--|
|  |  |
|--|--|



|                         |            |
|-------------------------|------------|
| Temperature Coefficient | ±25 ppm/°C |
|-------------------------|------------|

Industry Standards

|                            |   |
|----------------------------|---|
| Moisture Sensitivity Level | 1 |
|----------------------------|---|

Packaging Features

|                  |                |
|------------------|----------------|
| Packaging Method | Taped & Reeled |
|------------------|----------------|

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant                                                                                                                       |
| EU ELV Directive 2000/53/EC                   | Compliant                                                                                                                       |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                |
| Solder Process Capability                     | Reflow solder capable to 260°C                                                                                                  |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

CPF-A-0402B68KE1

68K ohm, Thin Film, Precision Resistor, .1 %, 0402, .063 W, ±25 ppm/°C, Solder, 2 Terminations, .3 mm [.012 in] Height, NEOHM CPF





TE Part # 5-2176216-0  
CPF A 0603 30K 0.1% 25PPM 1K RL



TE Part # 1-2176215-2  
CPF A 0402 1K82 0.1% 25PPM 1K RL



TE Part # 1-2176216-0  
CPF A 0603 47R 0.1% 25PPM 1K RL



TE Part # 1-2176217-6  
CPF A 0805 68R 0.1% 25PPM 1K RL



TE Part # 1-2176217-1  
CPF A 0805 33R 0.1% 25PPM 1K RL



TE Part # 1-2176217-3  
CPF A 0805 39R 0.1% 25PPM 1K RL



TE Part # 1-2176216-2  
CPF A 0603 75R 0.1% 25PPM 1K RL



TE Part # 1-2176215-7  
CPF A 0402 2K7 0.1% 25PPM 1K RL



TE Part # 2-2176216-3  
CPF A 0603 510R 0.1% 25PPM 1K RL



TE Part # 2-2176217-5  
CPF A 0805 270R 0.1% 25PPM 1K RL



TE Part # 2-2176215-6  
CPF A 0402 10K 0.1% 25PPM 1K RL



TE Part # 2-2176215-3  
CPF A 0402 6K8 0.1% 25PPM 1K RL



TE Part # 2-2176217-7  
CPF A 0805 330R 0.1% 25PPM 1K RL



TE Part # 2-2176217-6  
CPF A 0805 300R 0.1% 25PPM 1K RL



TE Part # 1-2176215-9  
CPF A 0402 3K9 0.1% 25PPM 1K RL



TE Part # 2176216-6  
CPF A 0603 27R 0.1% 25PPM 1K RL



TE Part # 2176215-7  
CPF A 0402 1K0 0.1% 25PPM 1K RL



TE Part # 2176215-6  
CPF A 0402 750R 0.1% 25PPM 1K RL

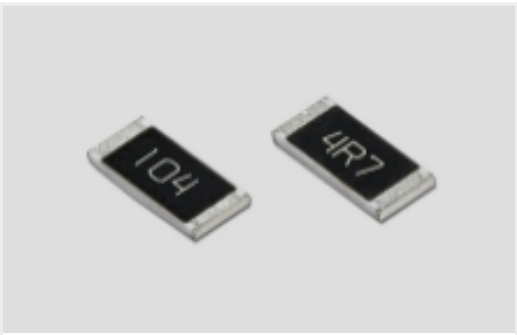


TE Part # 2176215-5  
CPF A 0402 536R 0.1% 25PPM 1K RL



TE Part # 2176217-3  
CPF A 0805 13R3 0.1% 25PPM 1K RL

Also in the Series | [NEOHM CPF](#)



Surface Mount Resistors(5842)

Customers Also Bought



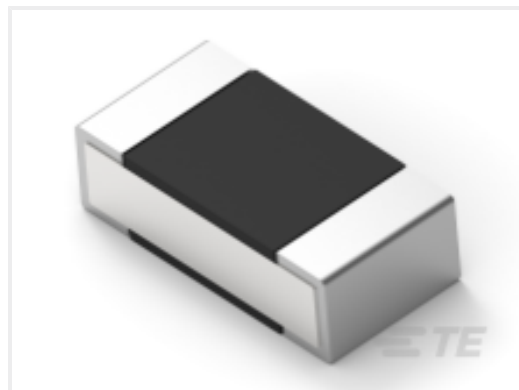
TE Part #1-1462037-8  
IM03TS=IM RELAY 140mW 5V



TE Part #1676480-3  
CRG0402 1% 10K



TE Part #9-1879333-0  
CPF0402 180K 0.1% 25PPM 5K RL



TE Part #2176308-6  
RP 1E 0.1W 150K 0.1% 25PPM 5K RL



TE Part #5-2176330-8  
CRGP 2010 560K 1%



TE Part #2205060-2  
CA MICRO-MATCH MOW-MOW 4POS



TE Part #2316110-6  
6P,2MM,REC,HSG,DR,CRIMP,LATCH,BOX



TE Part #2316110-8  
8P,2MM,REC,HSG,DR,CRIMP,LATCH,BOX



TE Part #3-2316113-4  
2MM,REC,CNT,CRIMP,24-28AWG,0.1UM,LP



TE Part #2823408-6  
6P,2MM,PL HDR,DRVT,2.8,0.76AU,TB

Documents

Product Drawings

CPF A 0402 68K 0.1% 25PPM 1K RL

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_4-2176215-5\_BA.2d\_dxf.zip

CPF-A-0402B68KE1

68K ohm, Thin Film, Precision Resistor, .1 %, 0402, .063 W, ±25 ppm/°C, Solder, 2 Terminations, .3 mm [.012 in] Height, NEOHM CPF



English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2176215-5\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2176215-5\\_BA.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Automotive Grade Thin Film Chip Resistor - Type CPF-A Series](#)

English