

Neohm | Neohm CPF

TE Internal #: 4-2176236-1

Surface Mount Precision Resistor, Thin Film, 0402, .0625 W, 51K ohm, .1 %, ± 25 ppm/ $^{\circ}$ C, Solder, 2 Terminations, Height .3 mm [.012 in], Neohm CPF

[View on TE.com >](#)

Passive Components > Resistors > Surface Mount Resistors

Resistor Type: **Precision Resistor**Element Type: **Thin Film**Package Size Code: **0402**Power Rating: **.0625 W**Resistance Value: **51K Ω**

Features

Industry Standards

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

Usage Conditions

| | |
|-----------------------------|------------------------|
| Operating Temperature Range | -55 – 155 $^{\circ}$ C |
|-----------------------------|------------------------|

| | |
|-------------------------|----------------------------|
| Temperature Coefficient | ± 25 ppm/ $^{\circ}$ C |
|-------------------------|----------------------------|

Electrical Characteristics

| | |
|-------------------|------|
| Operating Voltage | 25 V |
|-------------------|------|

| | |
|--------------|---------|
| Power Rating | .0625 W |
|--------------|---------|

| | |
|------------------|--------------|
| Resistance Value | 51K Ω |
|------------------|--------------|

| | |
|------------------|---------------------------|
| Resistance Class | 1k Ω – 1M Ω |
|------------------|---------------------------|

| | |
|-----------------------------|------|
| Passive Component Tolerance | .1 % |
|-----------------------------|------|

Product Type Features

| | |
|---------------|--------------------|
| Resistor Type | Precision Resistor |
|---------------|--------------------|

| | |
|--------------|-----------|
| Element Type | Thin Film |
|--------------|-----------|

| | |
|-------------------|------|
| Package Size Code | 0402 |
|-------------------|------|

Configuration Features

| | |
|---------------------|---|
| Number of Resistors | 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] |

Packaging Features

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

Other

| | |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance | Compliant |

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 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC |
| Halogen Content | Low Halogen - Br, Cl, F, I < 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

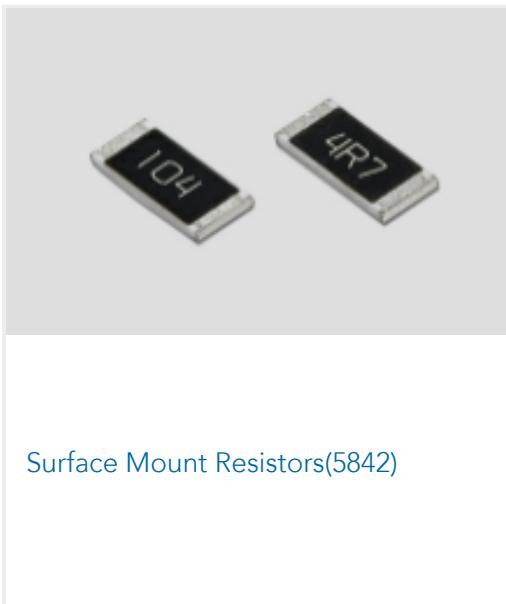


TE Part # 3-2176236-2
CPF A 0402 22K 0.1% 25PPM 5K RL



TE Part # 4-2176236-2
CPF A 0402 56K 0.1% 25PPM 5K RL

Also in the Series | Neohm CPF



Surface Mount Resistors(5842)

Customers Also Bought



TE Part #224793-000
B-106-1601



TE Part #4-2176325-0
CRGP 0402 18K 1%



TE Part #3-2176325-6
CRGP 0402 8K2 1%



TE Part #1-2176326-7
CRGP 0603 220R 1%



TE Part #4-2176326-1
CRGP 0603 22K 1%



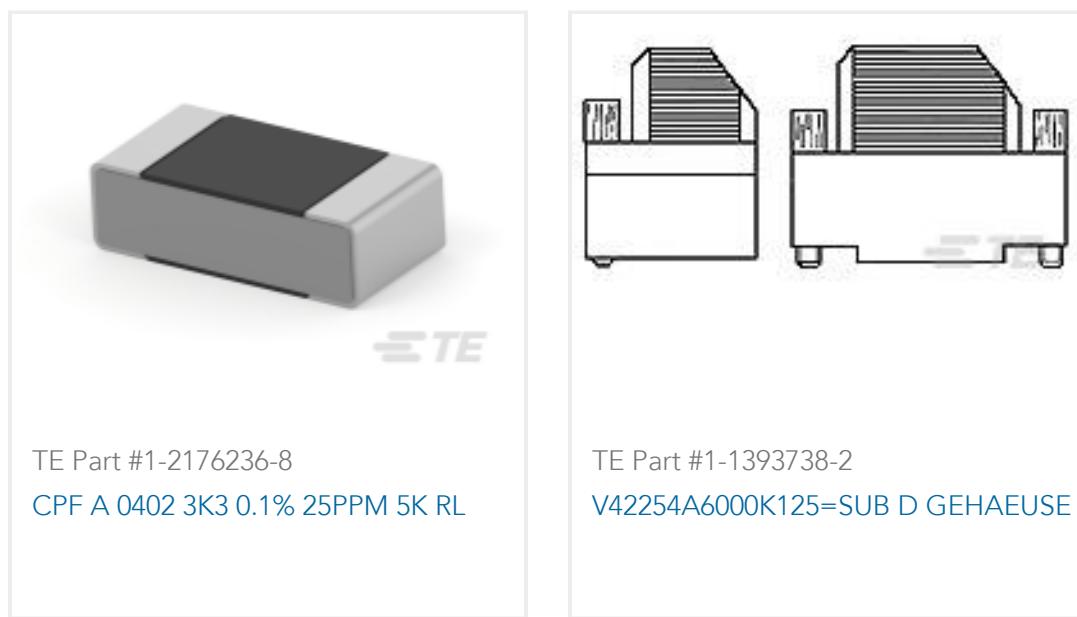
TE Part #7-2176306-0
RP 1E 0.1W 6K04 0.1% 25PPM 5K RL



TE Part #8-2176307-1
RP 1E 0.1W 84K5 0.1% 25PPM 5K RL



TE Part #413638-E
STVH15 15 M ZD VV 3-00 LAFD ** 199
E 17



Documents

Product Drawings

[CPF A 0402 51K 0.1% 25PPM 5K RL](#)

English

Datasheets & Catalog Pages

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

English