# CPF-A-0805B6K8E ✔ ACTIVE

NEOHM | NEOHM CPF

TE Internal #: 4-2176238-7

6.8K ohm, Thin Film, Precision Resistor, .1 %, 0805, .1 W, ±25 ppm/°C, Solder, 2 Terminations, .55 mm [.022 in] Height, NEOHM CPF

View on TE.com >

Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**

Element Type: **Thin Film**

Package Size Code: **0805**

Power Rating: **.1 W**

Resistance Value: **6.8K Ω**

## Features

### Product Type Features

| | |
|---|---|
| Resistor Type | Precision Resistor |
| Element Type | Thin Film |
| Package Size Code | 0805 |

### Configuration Features

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

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 100 V |
| Power Rating | .1 W |
| Resistance Value | 6.8K Ω |
| Resistance Class | 1kΩ – 1MΩ |
| Passive Component Tolerance | .1 % |

### Termination Features

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

## Dimensions

| | |
|---|---|
| Product Height | .55 mm[.022 in] |
| Product Length | 2 mm[.079 in] |
| Product Width | 1.25 mm[.049 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 – 155 °C[-67 – 311 °F] |
| Temperature Coefficient | ±25 ppm/°C |

## Industry Standards

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

## Packaging Features

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

# Product Compliance

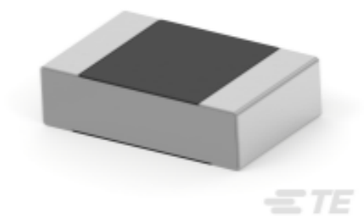
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| 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 2023 (235)<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

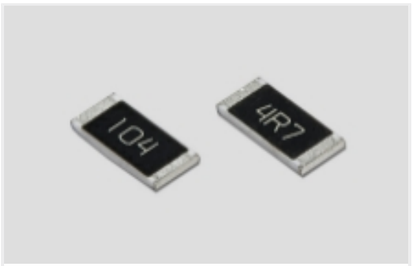
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



TE Part # 6-2176238-7
CPF A 0805 100K 0.1% 25PPM 5K RL

## Also in the Series | NEOHM CPF




Surface Mount Resistors(5842)

## Customers Also Bought



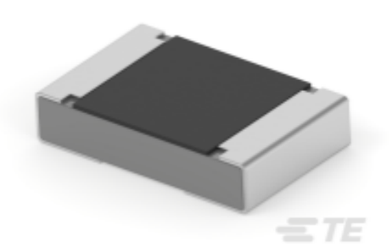
TE Part #284699-E
SRCP 1,27 8 M 1 SMD 137 E1 094 * GU-H *



TE Part #788143-2
FFC RCPT CONT,STD PRESSURE,PLT



TE Part #1825967-2
FSMCDAH=6.0mm Tact W/SQ Act. & High Temp



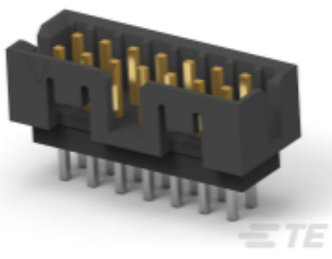
TE Part #1-2176477-2
RA73F 2A 715R 0.1% 1K RL



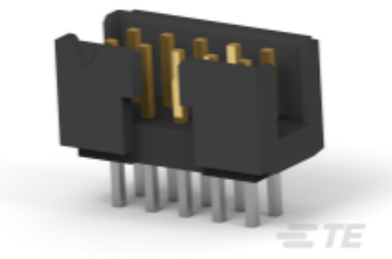
TE Part #2420741-1
SSA Tube 1.6mm OD x 0.5mm ID x 1m L



TE Part #5227677-1
BNC PCB RT ANG JACK W/POST



TE Part #2-2842238-0
20P,2MM,SHRD HDR,DRVT,0.76AU,TB



TE Part #1-2842284-0
10P,2MM,SHRD HDR,DRVT,0.76AU,TB

TE Part #839818-E

IDCCS SRC 1,27 8 * SPX SPX 140 PVC

TE Part #839141-E

IDCCS SRC 1,27 6 * AFD NXX 500 PVC

## Documents

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_4-2176238-7_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_4-2176238-7_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_4-2176238-7_A.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