# HBA47MFZRE ✔ ACTIVE

CGS | CGS HB

TE Internal #: 1625960-9

47M ohm, Thick Film, High Value/High Voltage Resistor, 1 %, .4 W, ±100 ppm/°C, Radial-Leaded, Copper Termination, 8 x 2.6 mm, CGS HB

View on TE.com >

Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **High Value/High Voltage Resistor**

Element Type: **Thick Film**

Power Rating: **.4 W**

Resistance Class: **1MΩ – 1GΩ**

Resistance Value: **47M Ω**

## Features

### Product Type Features

| | |
|---|---|
| Resistor Type | High Value/High Voltage Resistor |
| Element Type | Thick Film |

### Configuration Features

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

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 1000 V |
| Power Rating | .4 W |
| Resistance Class | 1MΩ – 1GΩ |
| Resistance Value | 47M Ω |
| Passive Component Tolerance | 1 % |

### Body Features

| | |
|---|---|
| Lead Type | Radial-Leaded |

### Termination Features

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|---|---|
| Termination Area Base Material | Copper |
| Number of Terminations | 2 |

### Dimensions

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|---|---|
| Passive Component Dimensions | 8 x 2.6 mm |

## Usage Conditions

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|---|---|
| Operating Temperature Range | -55 – 125 °C[-67 – 257 °F] |
| Temperature Coefficient | ±100 ppm/°C |

## Packaging Features

| | |
|---|---|
| Packaging Method | Loose Piece - Tray |

## Product Compliance

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

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant with Exemptions |
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量超出标准 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>SVHC > Threshold:<br>Pb (5% in Component Part)<br>**Article Safe Usage Statements:**<br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Hand solderable with lead free solder |

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 # 2-1625959-5
HB03RE 50M 1% 100PPM



TE Part # 1625959-3
HB03RE 100M 1% 100PPM



TE Part # 1625958-4
HB01RE 100M 1% 100PPM



TE Part # 1625958-8
HB01RE 10M 1% 100PPM



TE Part # 1625960-1
HBA RE 100M 1% 100PPM

## Also in the Series | CGS HB



Through-Hole Resistors(43)

## Customers Also Bought



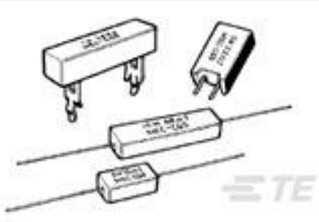
TE Part #32994
TERMINAL,SOLIS R 12-10 8



TE Part #151440
PIDG 22 RING #8



TE Part #1-1623774-5
C14 10K 5% (LOOSE)



TE Part #2-1623788-5
SQM5 R22 5% (WIRE)



TE Part #1-1625958-5
HB01RE 1M0 1% 100PPM



TE Part #1625960-1
HBA RE 100M 1% 100PPM



TE Part #1625960-3
HBA RE 10M 1% 100PPM




TE Part #7-1879494-3
CRGH0603 5% 1K0 0.2W



TE Part #5-2176414-8
7W STD M/OX 5% 4K7



TE Part #4-2176415-5
8W STD M/OX 5% 2K0

## Documents

### Product Drawings

HBA RE 47M 1% 100PPM

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1625960-9_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1625960-9_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1625960-9_D.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Datasheets & Catalog Pages

4-1773460-6_RESISTIVE_SOLUTIONS_RAIL

English

1309350_PASSIVE_COMPONENT

English

High Value/High Voltage Resistors - Type HB Series

English