



| General Information |   |
|---------------------|---|
| Series              | QFSM  |
| Type                | Flame Detection   |
| Style               | SMD   |
| Description         | 12C Flame Sensor Module   |
| Features            | Small SMD Package, 12C Communication Compatible   |
| RoHS                | With Exemptions   |
| REACH               | SVHC (PZT – CAS 12626-81-2)   |
| SCIP Number         | f8c5f819-a3bd-41c4-887e-bd5dcb8c5edf  |
| Qualifications      | REACH   |
| Notes               | The module, in order to be evaluated, can be used with the control board USEQCSK00000000 for prototyping purpose. |
| MSL                 | 3   |

| Dimensions               |            |
|--------------------------|------------|
| L                        | 13.8mm NOM |
| L2                       | 10mm NOM   |
| H                        | 16mm NOM   |
| Packaging Specifications |            |
| Packaging                | Bulk       |
| Typical Component Weight | 5.4 g      |

| Specifications       |  |
|----------------------|--|
| Temperature Range    | -40/+85°C  |
| Power Supply Voltage | 1.75 - 3.6 V   |
| Current              | 1 - 23 uA (Supply Current, Typical)                      |
| Miscellaneous        | Sensor Type: Single. Includes sensor: USEQFSEA464180.    |
| D*                   | $2.5 \times 10^8 \text{ cm} \sqrt{\text{Hz}} / \text{W}$ |
| NEP                  | $2.7 \times 10^{-10} \text{ W}/\sqrt{\text{Hz}}$         |
| Time Constant        | 10ms (10-20 Hz peak)                                     |
| Field of View        | 90 degrees   |
| Element Size         | 0.64mm x 0.64mm  |
| Filter Aperture      | d = 1.65 mm  |
| Filter               | 4.64 um (flame channel with wide FoV)                    |

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