



**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 USEQCSK0000000 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: USEQFSEA50L180.       |
| 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               | 5 um long pass (human motion rejection)                     |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.