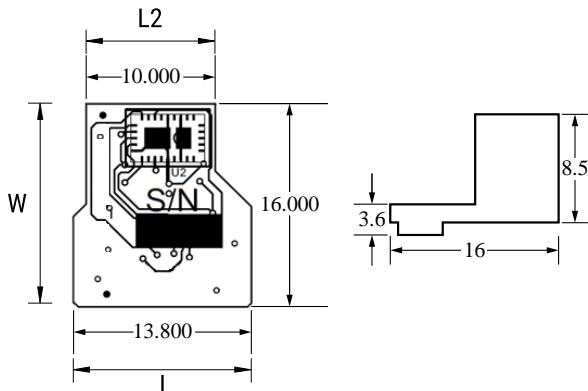


**KEMET Part Number: USEQFSM1448100**  
(USEQFSM1448100)



KEMET, QFS, Flame Detection, SMD, Infrared, Small SMD Package, 12C Communication Compatible



Dimensions	
L	13.8mm NOM
L2	10mm NOM
H	16mm NOM

Packaging Specifications	
Packaging:	Bulk
Weight:	5.4 g

General Information	
Series:	QFS
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

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: USEQFSEA448180.
D*:	$2.5 \times 10^8 \text{ cm sqrt(Hz) / W}$
NEP:	$2.7 \times 10^{-10} \text{ W/sqrt(Hz)}$
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:	4.48 um (flame channel with main detector)

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.

