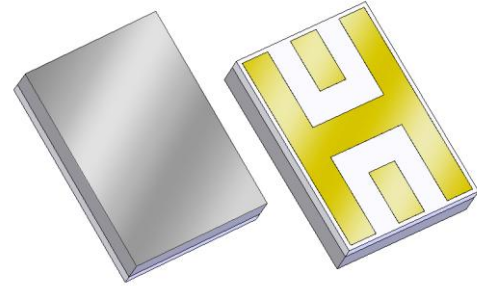


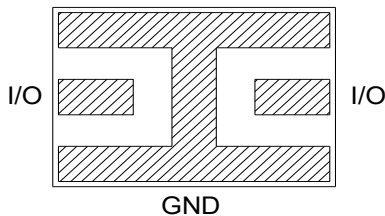
General Description

880368 is 1280 MHz RF BAW filter designed in a small hermetic package for L-Band and high selectivity applications.



CSP: 3.71 x 2.57 x 0.89 mm

Functional Block Diagram



Bottom View

Pin Configuration - Single Ended

Pin No.	Label
I/O	Input / Output
GND	Ground

Product Features

- Usable bandwidth of 19 MHz
- Low Loss
- High Selectivity
- Single-Ended Operation
- 50 Ω Impedance at Input / Output
- Ceramic Chip-Scale Package (CSP)
- Small Size
- Hermetically Sealed

Applications

- L-Band
- For high selectivity applications

Ordering Information

Part No.	Description
1061137	880368 BAW LAD 1280 MHz Filter
1072905	Evaluation board



Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-55 to 100 °C
Operation Temperature	-40 to +85 °C
RF Input Power ⁽¹⁾ - Test conditions: PW = 200ms; DC = 50% @ +25 °C	41 dBm

Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to device may reduce device reliability.

⁽¹⁾ Input Power for both Input & Output ports

Minimum Lifetime Ratings

Conditions	Rating
RF Input Power ⁽¹⁾ , for both Input and Output ports	>300K hours

⁽¹⁾ Input Power: CW, 23 dBm, @ +55 °C

Electrical Specifications ⁽¹⁾

Test conditions unless otherwise noted: ⁽²⁾ Temp = -40 to +85 °C

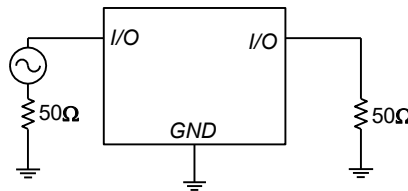
Parameter ⁽³⁾	Conditions	Min	Typical ⁽⁴⁾	Max	Units
Center Frequency		-	1280	-	MHz
Maximum Insertion Loss	@ Fo	-	4.0	4.5	dB
3 dB Bandwidth	Reference Loss @ Fo	19	23	-	MHz
40 dB Lower Frequency Edge		1249	1260	-	MHz
40 dB Upper Frequency Edge		-	1300	1311	MHz
Input/Output VSWR	@ Fo	-	1.5 : 1	2:0	-
Source Impedance ⁽⁵⁾	Single-ended	-	50	-	Ω
Load Impedance ⁽⁵⁾	Single-ended	-	50	-	Ω

Notes:

- All specifications are based on the Qorvo schematics for the reference designs shown on page 3.
- Devices tested at room temperature to a guard band specification to ensure electrical compliance over temperature range.
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances.
- Typical values are based on average measurements at room temperature (25 °C ±5 °C).
- Optimum impedance to achieve the performance shown

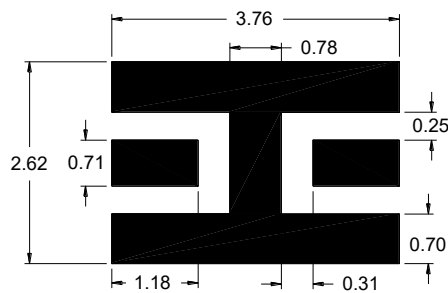
Matching Schematics

50 Ω
Single-ended
Input



50 Ω
Single-ended
Output

PCB Mounting Pattern

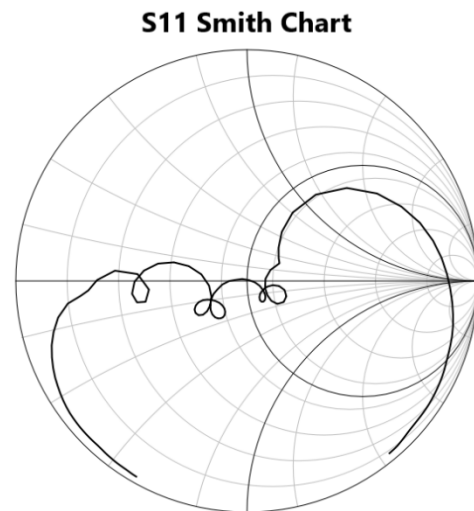
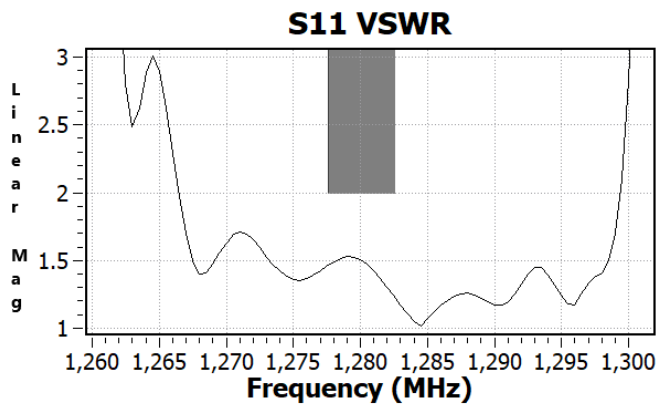
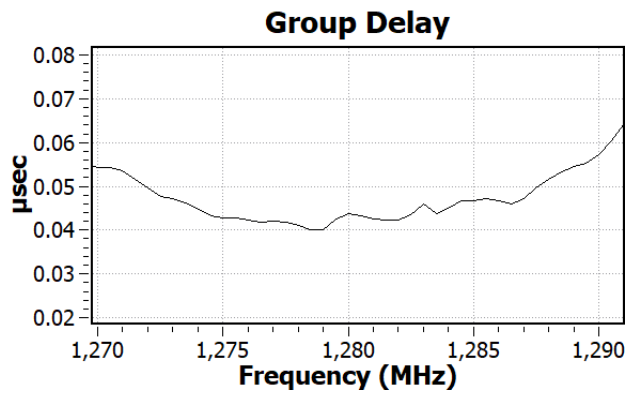
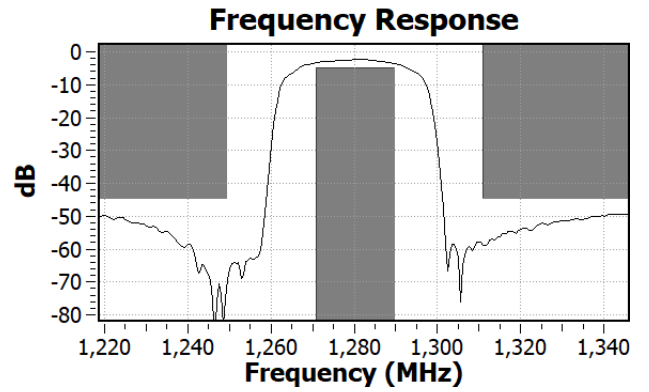
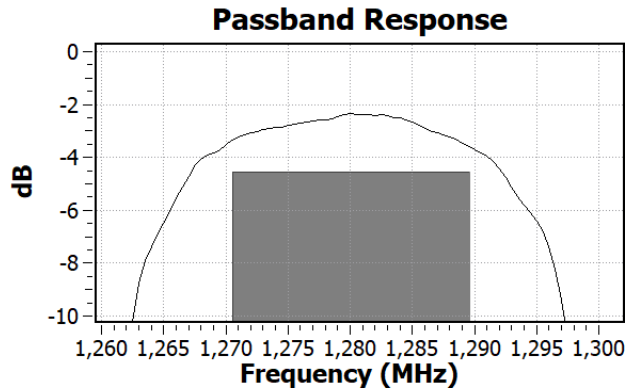


Notes:

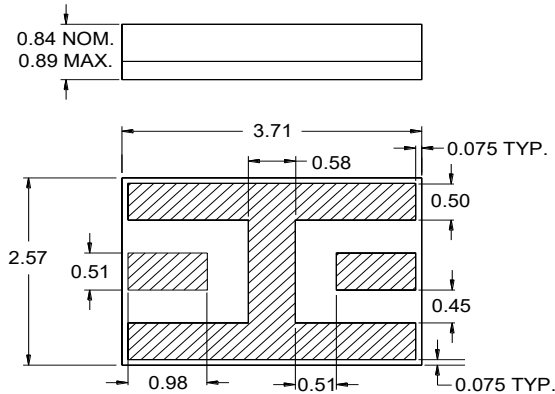
1. All dimensions are in millimeters.
2. Modifications may be necessary to suit end user assembly materials and processes.

Typical Performance

Test conditions unless otherwise stated: Temp. = 25 °C ±5 °C



Device Package Information, Marking and Dimensions



Package Style: CSP
 Dimensions: 3.71 x 2.57 x 0.89 mm

Package Base: Sapphire
 Package Lid: Alumina
 Terminations: Au plating over Ni (0.33 ~ 0.83 μm Au, 2.0 ~ 6.0 μm Ni)

All dimensions shown are nominal in millimeters.
 All tolerances are $\pm 0.13\text{mm}$ except overall length and width $\pm 0.25\text{mm}$.
 Overall width, length, and thickness are the only critical dimensions. All other dimensions are for reference only.

Marking includes corporate logo, date code, and product part number.
 The date code consists of, YY = last 2 digits of the year, WW = 2 digits of calendar work week and LL = Lot ID, unique lot identifier.
 Marking Diagram is for Reference Only.

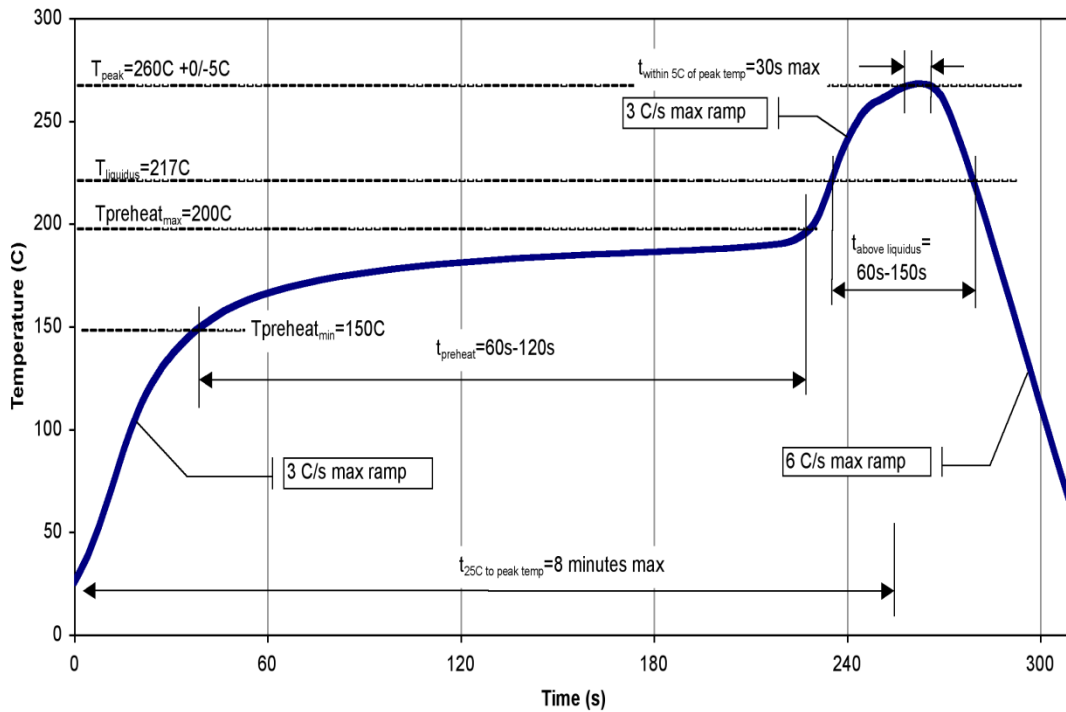
Packaging Information

- Tape and Reel per EIA-481 available. Additional information is available upon request.
- Solder tinning is available per IPC J-STD-001.

Assembly Notes

1. Compatible with both Lead-free solder (260°C peak reflow temperature) and tin/lead (245°C peak reflow temp.) soldering processes.
2. Contact plating: Au plating over Ni.

Recommended Soldering Profile



Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	Class 3B	ANSI/ESD/JEDEC JS-001
ESD – Charged Device Model (CDM)	Class C3	ANSI/ESD/JEDEC JS-002
MSL – Moisture Sensitivity Level	N/A, Hermetic Package	



Caution!
ESD-Sensitive Device

RoHS Compliance

This product is compliant with the 2011/65/EU RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment), as amended by Directive 2015/863/EU. This product also has the following attributes:

- Lead Free
- Halogen Free (Chlorine, Bromine)
- Antimony Free
- TBBP-A (C₁₅H₁₂Br₄O₂) Free
- PFOS Free
- SVHC Free

Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

Web: www.qorvo.com
Tel: 1-844-890-8163
Email: customer.support@qorvo.com

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