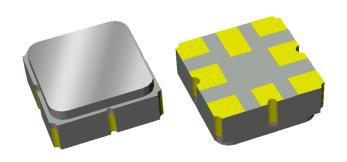


Data Sheet

Part Number 856330 1086 MHz SAW Filter

Features

- For broadband access applications
- Usable bandwidth 10 MHz
- High attenuation
- No impedance matching required for operation at 200 Ω
- Balanced operation
- Ceramic Surface Mount Package (SMP)
- Small size



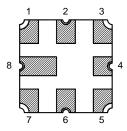
Package

Surface Mount 3.00 x 3.00 x 1.22 mm

1.22 NOM. 1.32 MAX. 3.00 0.60 0.75

Pin Configuration

Bottom View



Pin No.	Description			
1	Input			
2	Input return			
5	Output			
6	Output return			
3,4,7,8	Case ground			

Dimensions shown are nominal in millimeters All tolerances are ± 0.15 mm except overall length and width ± 0.10 mm

Body: Al₂O₃ ceramic Lid: Kovar, Ni plated Terminations: Au plating 0.5 - 1.0μm, over a 2 - 6μm Ni plating



Data Sheet

Part Number 856330 1086 MHz SAW Filter

Electrical Specifications (1)

Operating Temperature Range: (2) -40 to +85 °C

Parameter (3)	Minimum	Typical	Maximum	Unit
Center Frequency	-	1086	-	MHz
Maximum Insertion Loss				
1081 - 1091 MHz	-	4	5	dB
1.5 dB Bandedges				
Lower Bandedge	-	1073	1081	MHz
Upper Bandedge	1091	1099		
Amplitude Ripple (4)				
1081 - 1091 MHz	-	0.3	1.0	dB
Stopband Rejection (Test Fixture)				
500 - 988 MHz	50	65	-	dB
988 - 1002 MHz	52.5	70	-	dB
1038 - 1046 MHz	40	55	-	dB
1156 - 1600 MHz	40	60	-	dB
4167 - 4168 MHz	35	40	-	dB
Stopband Rejection (PCB) (5)				
988 - 1002 MHz	61	71	-	dB
Group Delay Ripple				
1081 - 1091 MHz	-	20	-	ns
Source Impedance (6)	-	200	-	Ω
Load Impedance (6)	-	200	-	Ω

Notes:

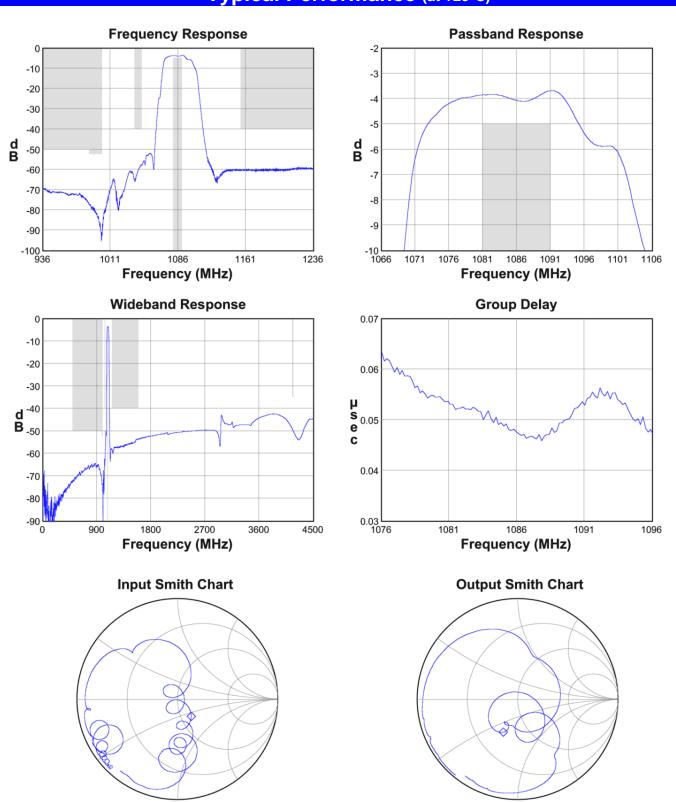
- 1. All specifications are based on the test circuit shown below. Testing is carried out using test fixture 971748, test data sheet 122288-02, to equipment specification 100221.
- 2. In production, devices will be tested at room temperature in a TriQuint test fixture to a guardbanded specification to ensure electrical compliance over temperature.
- 3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances.
- 4. Maximum peak to adjacent valley over the defined frequency range.
- 5. This value is correlated to the test specification of 52.5 dB on the TriQuint production test fixture.
- 6. This is the optimum impedance in order to achieve the performance shown.

Test Circuit:



Part Number 856330 1086 MHz SAW Filter

Typical Performance (at +25°C)



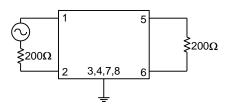


Data Sheet

Part Number 856330 1086 MHz SAW Filter

Matching Schematics

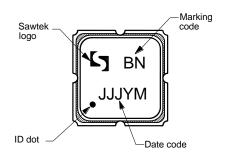


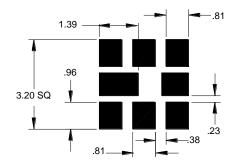


 $200\,\Omega$ Balanced

Marking

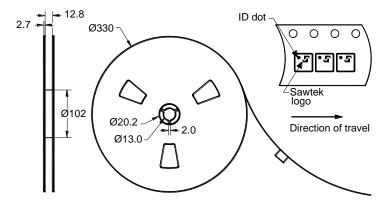
PCB Footprint

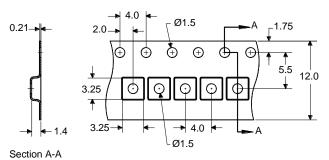




The date code consists of: JJJ = Julian day, Y = last digit of year, M = manufacturing site code This footprint represents a recommendation only Dimensions shown are nominal in millimeters

Tape and Reel





Dimensions shown are nominal in millimeters Packaging quantity: 5000 units/reel



Part Number 856330 1086 MHz SAW Filter

Data Sheet

Maximum Ratings							
Parameter	Symbol	Minimum	Maximum	Unit			
Operating Temperature Range	Т	-40	+85	°C			
Storage Temperature Range	T_{stg}	-40	+85	°C			

Warnings

Electrostatic Sensitive Device (ESD)



Avoid ultrasonic exposure

RoHS Compliance

This product complies with EU directive 2002/95/EC (RoHS)



Solderability

Compatible with JESD22-B102, Pb-free process, 260C peak reflow temperature (see soldering profile)

Links to Additional Technical Information

PCB Layout Tips Qualification Flowchart Soldering Profile

S-Parameters Other Technical Information

TriQuint's liability is limited only to the Surface Acoustic Wave (SAW) component(s) described in this data sheet. TriQuint does not accept any liability for applications, processes, circuits or assemblies which are implemented using any TriQuint component described in this data sheet.

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