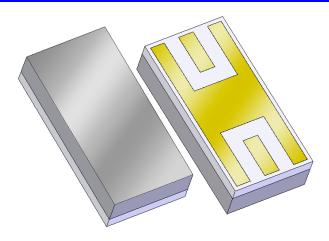


Part Number 880126 2106 MHz BAW Filter

Features

- Usable bandwidth of 35 MHz
- Single-ended operation
- Ceramic Surface Mount Package
- This part number is a replacement for part number SMR-2106-45
- Hermetic

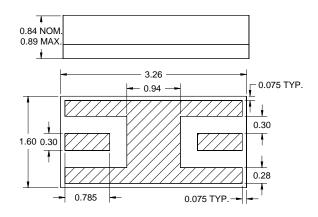


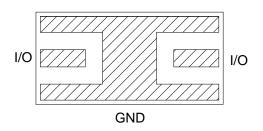
Package

Surface Mount 3.26 x 1.60 x 0.84 mm

Pin Configuration

Bottom View





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

Dimensions shown are nominal in millimeters All tolerances are ± 0.13 mm except overall length and width ± 0.25 mm

Overall width, length, and thickness are the only critical dimensions. All other dimensions are for reference only

> Body: Sapphire Package: Alumina Terminations: Au plating 0.5 - 2.5μm, over a 2.0 – 6.0 μm Ni plating



Part Number 880126 2106 MHz BAW Filter

Electrical Specifications (1)

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

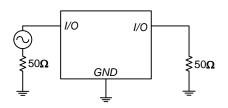
Parameter (3)	Minimum	Typical	Maximum	Unit
Center Frequency	-	2106	-	MHz
Insertion Loss at Fo	-	-	4	dB
3 dB Bandwidth (4)	35	-	-	MHz
Source Impedance	-	50	-	Ω
Load Impedance	-	50	-	Ω

Notes:

- All specifications are based on the test circuit shown below
- In production, devices will be tested at room temperature 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
- Referenced to the insertion loss at center frequency

Test Circuit:

50 Ω Single-ended Input

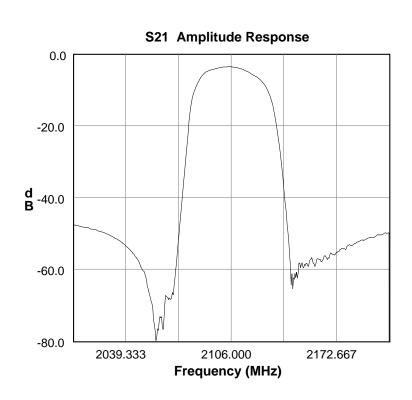


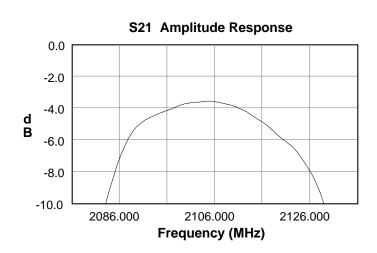
50 Ω Single-ended Output

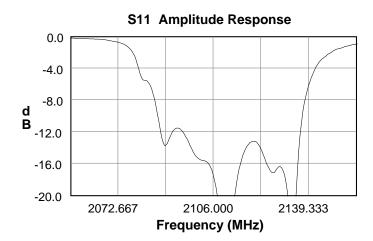


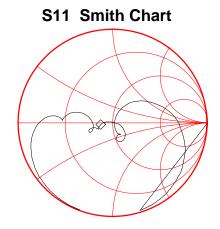
Part Number 880126 2106 MHz BAW Filter

Typical Performance (at +25°C)







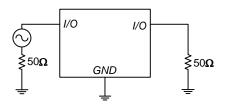




Part Number 880126 2106 MHz BAW Filter

Matching Schematics

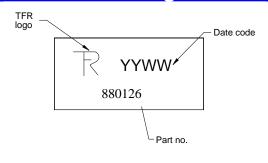
 50Ω Single-ended Input

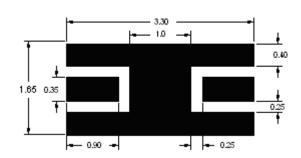


50 Ω Single-ended Output

Marking

PCB Footprint





The date code consists of: YY = last digit of year, WW = 2 digit week

This footprint represents a recommendation only Dimensions shown are nominal in millimeters

Tape and Reel

Tape and Reel available upon request EIA-481

Tinning available per J-STD-001

ROHS compliant (no tinning) **DFARS** compliant



Part Number 880126 2106 MHz BAW Filter

Maximum Ratings						
Parameter	Symbol	Minimum	Maximum	Unit		
Operating Temperature Range	Т	-40	+85	°C		
Storage Temperature Range	T_{stg}	-55	+100	°C		

Warnings

Electrostatic Sensitive Device (ESD)



Avoid ultrasonic exposure

Links to Additional Technical Information

Qualification Flowchart Soldering Profile **PCB Layout Tips**

S-Parameters Other Technical Information

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

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