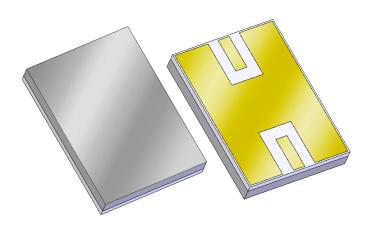


Part Number 880390 960 MHz BAW Filter

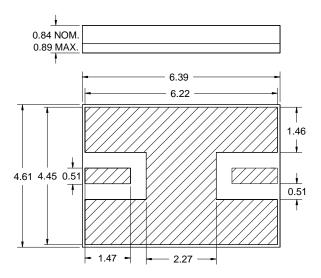
Features

- Usable bandwidth of 15 MHz
- Single-ended operation
- Ceramic Surface Mount Package
- Hermetic



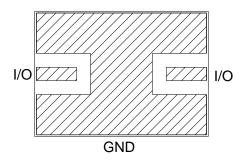
Package

Surface Mount 6.39 x 4.61 x 0.84 mm



Pin Configuration

Bottom View



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

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

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

Body: Sapphire Package: Alumina Terminations: Au plating 0.5 - 2.5μm, over a $2.0 - 6.0 \mu m Ni$ plating



Part Number 880390 960 MHz BAW Filter

Electrical Specifications (1)

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

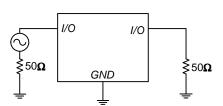
Parameter (3)	Minimum	Typical	Maximum	Unit
Center Frequency	955	960	965	MHz
Insertion Loss @ Fo	-	2.8	4.5	dB
3 dB Bandwidth (4)	15	19	-	MHz
40 dB Lower Frequency Edge	920	-	-	MHz
40 dB Upper Frequency Edge	-	-	1000	MHz
VSWR @ Fo	-	1.6	2:1	
Source Impedance	-	50	-	Ω
Load Impedance	-	50	-	Ω

Notes:

- 1. All specifications are based on the test circuit shown below
- 2. 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
- 4. Referenced to the insertion loss at center frequency

Test Circuit:

 $\begin{array}{c} 50~\Omega\\ \text{Single-ended}\\ \text{Input} \end{array}$

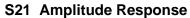


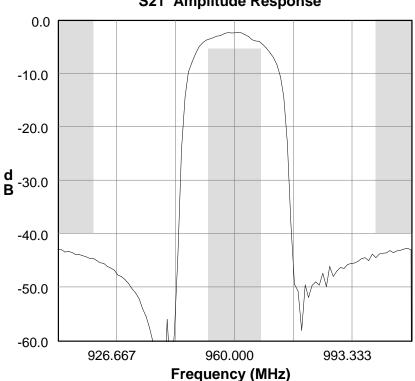
 $\begin{array}{c} 50~\Omega\\ \text{Single-ended}\\ \text{Output} \end{array}$

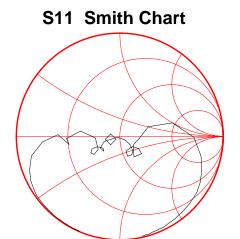


Part Number 880390 960 MHz BAW Filter

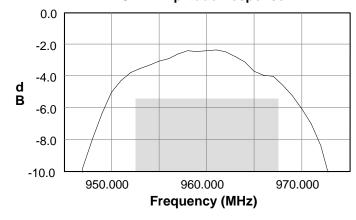
Typical Performance (at +25°C)

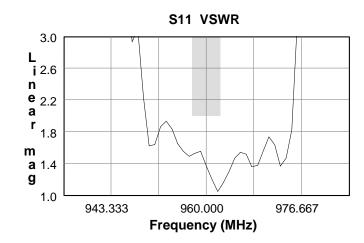






S21 Amplitude Response



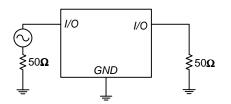




Part Number 880390 960 MHz BAW Filter

Matching Schematics

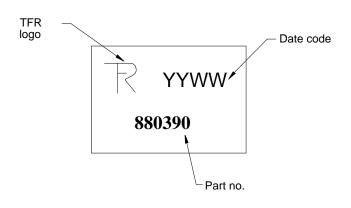
 $\begin{array}{c} 50~\Omega\\ \text{Single-ended}\\ \text{Input} \end{array}$

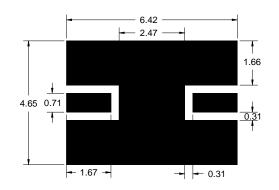


50 Ω Single-ended Output

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 880390 960 MHz BAW Filter

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

Warnings

Electrostatic Sensitive Device (ESD)



Avoid ultrasonic exposure

Links to Additional Technical Information

Qualification Flowchart PCB Layout Tips Soldering Profile

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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