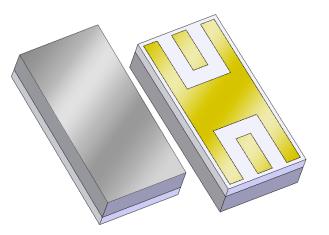


### **Data Sheet**



#### **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



#### **Pin Configuration**

Surface Mount 3.26 x 1.60 x 0.84 mm

Package

**Bottom View** 

GND

Description

Input/Output

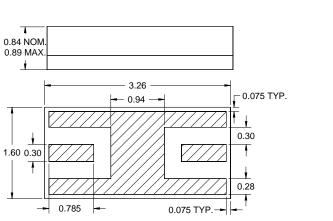
Ground

Pin No.

I/O

GND

I/O



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



I/O



# Data Sheet

### Electrical Specifications <sup>(1)</sup>

Operating Temperature Range: <sup>(2)</sup>

-40 to +85 °C

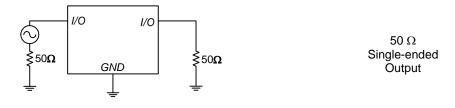
Parameter <sup>(3)</sup>	Minimum	Typical	Maximum	Unit
Center Frequency	-	2106	-	MHz
Insertion Loss at Fo	-	-	4	dB
3 dB Bandwidth <sup>(4)</sup>	35	-	-	MHz
Source Impedance	-	50	-	Ω
Load Impedance	-	50	-	Ω

#### 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

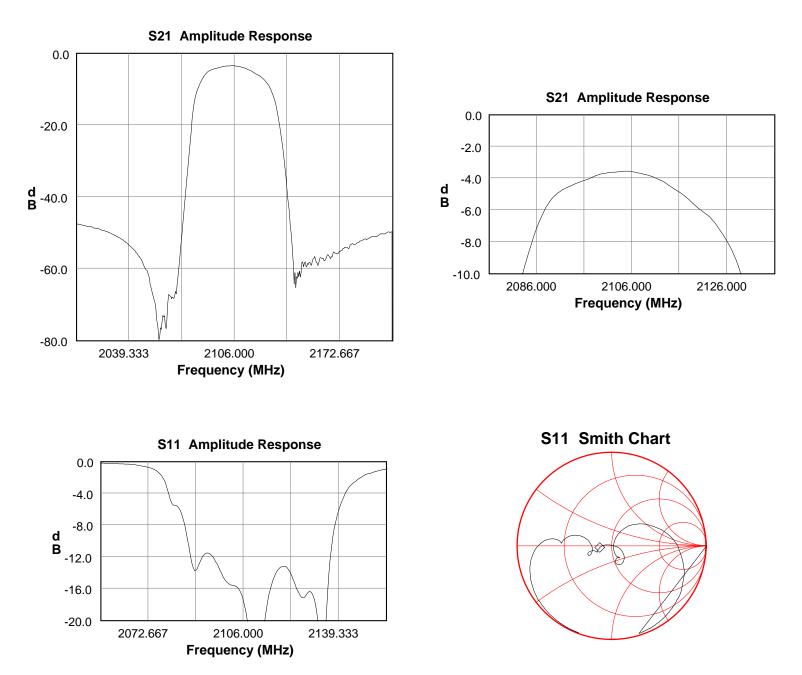
#### Test Circuit:

50 Ω Single-ended Input



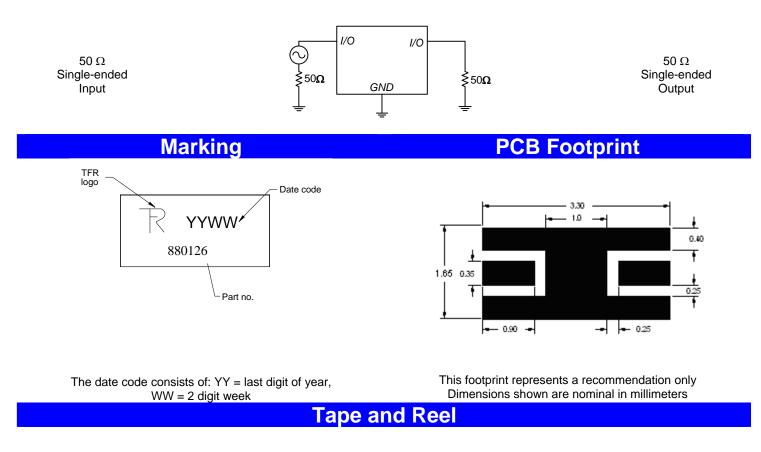


### **Typical Performance** (at +25°C)





### **Matching Schematics**



Tape and Reel available upon request EIA-481

Tinning available per J-STD-001

ROHS compliant (no tinning) DFARS compliant



### Data Sheet

Maximum Ratings							
Parameter	Symbol	Minimum	Maximum	Unit			
Operating Temperature Range	Т	-40	+85	°C			
Storage Temperature Range	T <sub>stg</sub>	-55	+100	О°			

#### Warnings

- Electrostatic Sensitive Device (ESD)
- Avoid ultrasonic exposure

#### Links to Additional Technical Information

PCB Layout Tips

**Qualification Flowchart** 

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.

#### **Contact Information**

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