



# Data Sheet

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

Operating Temperature: <sup>(2)</sup> +25 °C

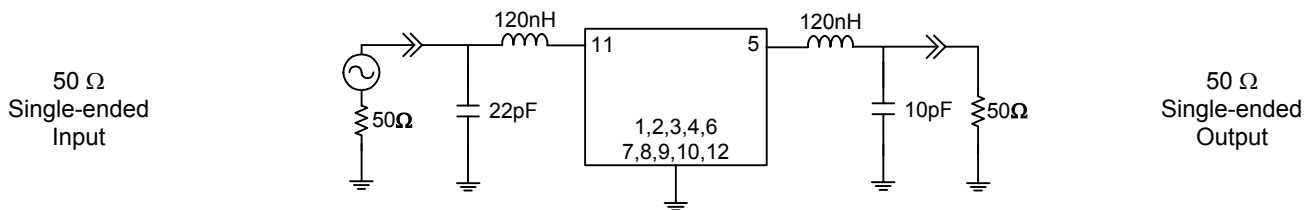
Parameter	Minimum	Typical	Maximum	Unit
Center Frequency	139.6	140	140.4	MHz
Insertion Loss at F <sub>0</sub>	-	9.1	12	dB
1 dB Bandwidth	17.25	17.69	-	MHz
3 dB Bandwidth	18	18.84	-	MHz
35 dB Bandwidth	-	22.79	24.1	MHz
40 dB Bandwidth	-	22.79	48	MHz
Passband Ripple 132.8 - 147.2 MHz	-	0.63	1	dB
Phase Linearity 132.8 - 147.2 MHz	-	6	10	deg
Group Delay Variation 132.8 - 147.2 MHz	-	64	120	nsec
Temperature Coefficient	-	-94	-	ppm/°C
Source Impedance <sup>(3)</sup>	-	50	-	Ω
Load Impedance <sup>(3)</sup>	-	50	-	Ω

### Notes:

1. All specifications are based on the test circuit shown below
2. All specifications are tested at room temperature only
3. This is the optimum impedance in order to achieve the performance shown

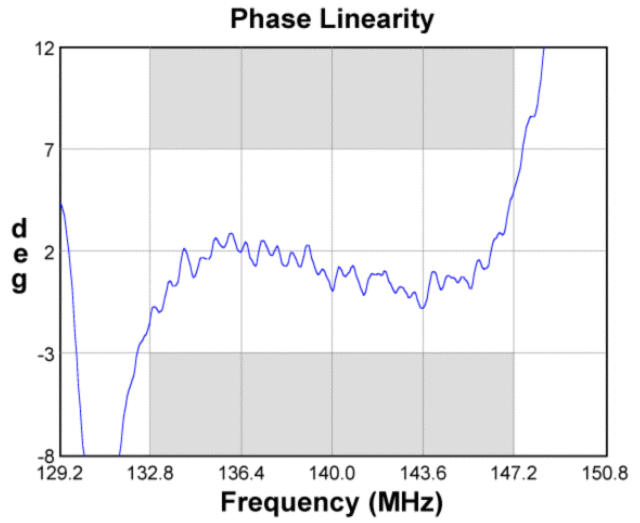
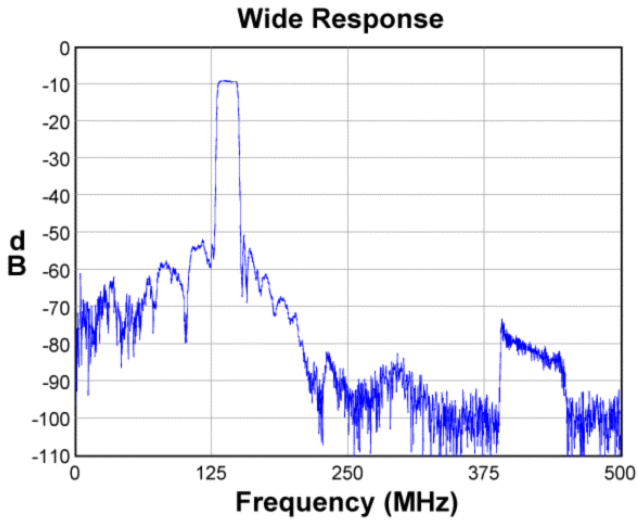
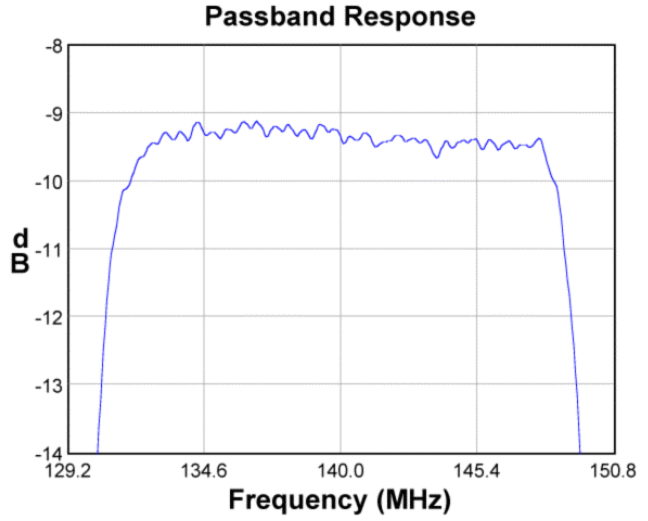
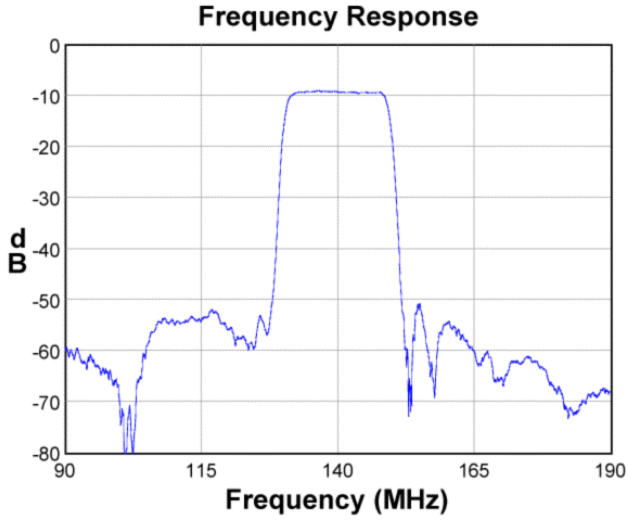
### Test Circuit:

Actual matching values may vary due to PCB layout and parasitics

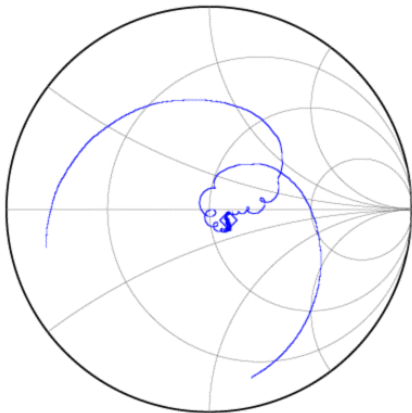


**Data Sheet**

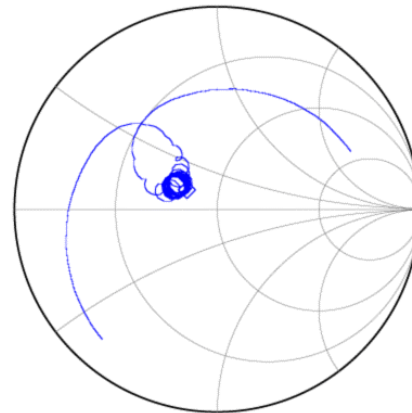
**Typical Performance (at +25°C)**



**Input Smith Chart**



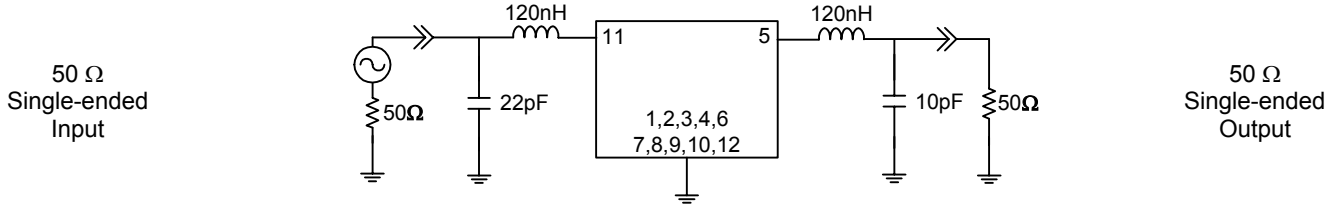
**Output Smith Chart**



**Data Sheet**

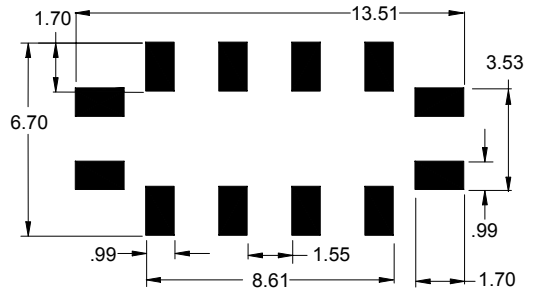
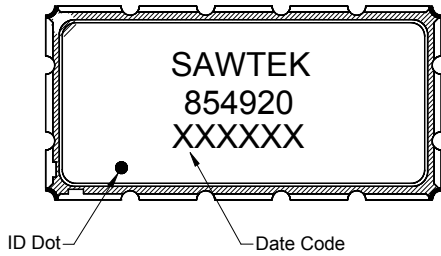
**Matching Schematics**

Actual matching values may vary due to PCB layout and parasitics



**Marking**

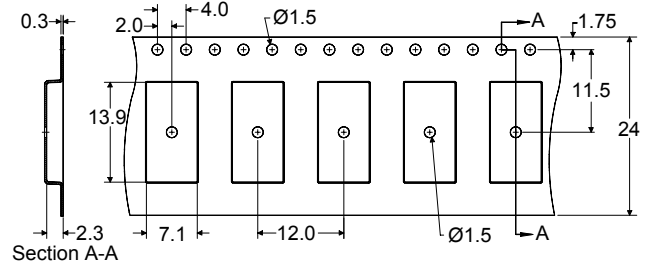
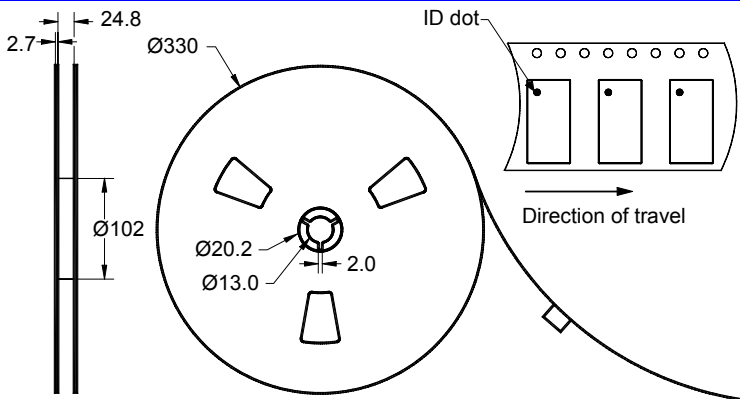
**PCB Footprint**



The date code consists of: day of the current year (Julian, 3 digits), last digit of the year (1 digit) and hour (2 digits)

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

**Tape and Reel**



Dimensions shown are nominal in millimeters  
Packaging quantity: 2000 units/reel

# Data Sheet

## Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Unit
Storage Temperature Range	T <sub>stg</sub>	-40	+85	° C

### Warnings

- Electrostatic Sensitive Device (ESD)
- Avoid ultrasonic exposure



### Material Content

- Does not contain lead (Pb) or other RoHS restricted materials

## Links to Additional Technical Information

[PCB Layout Tips](#)

[Qualification Flowchart](#)

[Soldering Profile](#)

[S-Parameters](#)

[Other Technical Information](#)

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