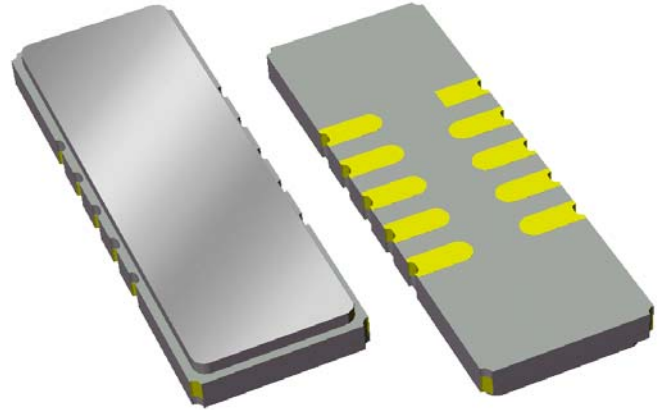


Data Sheet

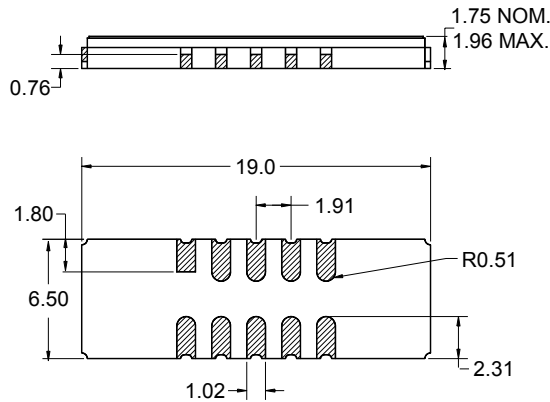
Features

- For CDMA basestation IF applications
- Usable bandwidth of 1.2 MHz
- Low loss
- High attenuation
- Single-ended operation
- Ceramic Surface Mount Package (SMP)



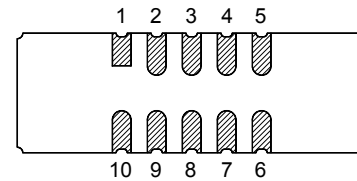
Package

Surface Mount 19.00 x 6.50 x 1.75 mm



Pin Configuration

Bottom View



Pin No.	Description
1	RF input
6	RF output
5,10	Ground
2,3,4	Case ground
7,8,9	Case ground

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

Body: Al_2O_3 ceramic
 Lid: Kovar, Ni plated
 Terminations: Au plating 0.5 - 1.0 μ m,
 over a 2 - 6 μ m Ni plating

Data Sheet

Electrical Specifications ⁽¹⁾

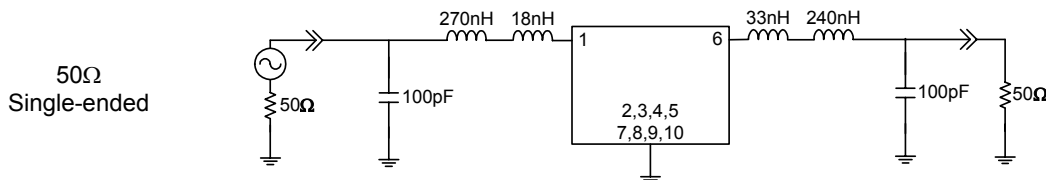
Operating Temperature Range: ⁽²⁾ -40 to +85 °C

Parameter ⁽³⁾	Minimum	Typical	Maximum	Unit
Center Frequency, f_0	-	73.5896	-	MHz
Maximum Insertion Loss at 73.5896 MHz	-	11.9	13	dB
Lower 1.25 dB Bandedge ⁽⁴⁾	-	72.897	72.9646	MHz
Upper 1.25 dB Bandedge ⁽⁴⁾	74.2146	74.247	-	MHz
Amplitude Variation 72.9646 - 74.2146 MHz	-	0.86	1.25	dB p-p
Phase Ripple 72.9646 - 74.2146 MHz	-	8.1	12.5	deg p-p
Integrated Phase Error	-	0.00098	0.0019	rad ²
Stopband Rejection ⁽⁴⁾				
0.3 - 5 MHz	45	81	-	dB
5 - 67.5896 MHz	45	58	-	dB
79.5896 - 150 MHz	45	58	-	dB
Relative Attenuation ⁽⁴⁾				
71.5496 MHz	40	49	-	dB
71.8996 MHz	35	39	-	dB
72.3496 MHz	30	41	-	dB
72.6996 MHz	27.5	36	-	dB
74.4796 MHz	27.5	29	-	dB
74.8296 MHz	30	40	-	dB
75.2796 MHz	35	44	-	dB
75.6296 MHz	40	51	-	dB
Source Impedance ⁽⁵⁾	-	50	-	Ω
Load Impedance ⁽⁵⁾	-	50	-	Ω

Notes:

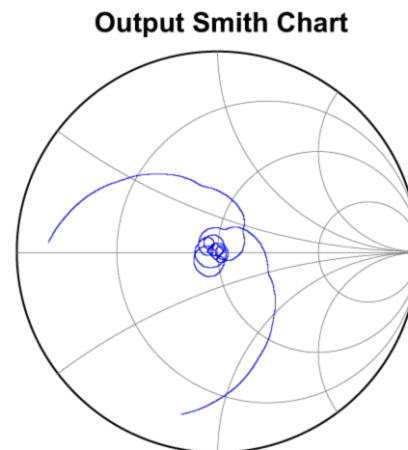
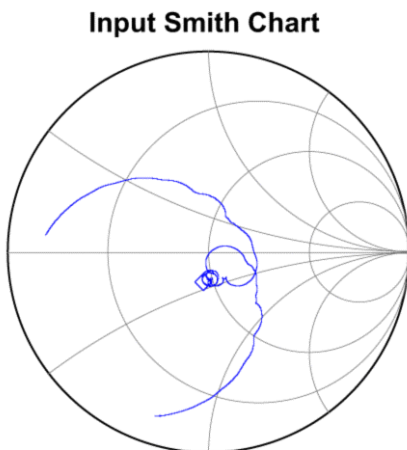
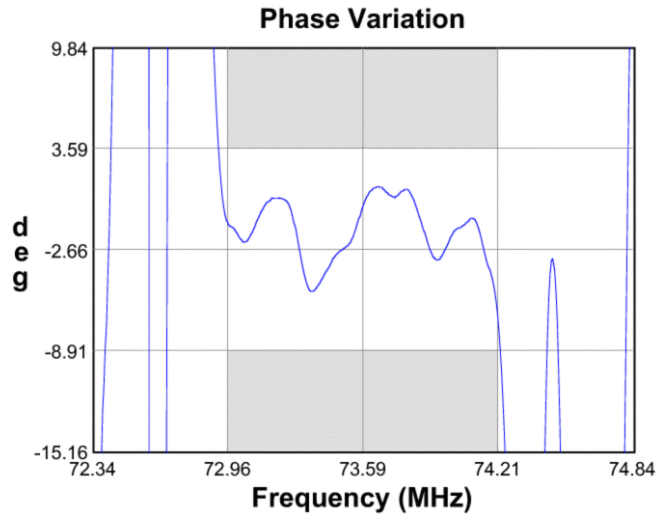
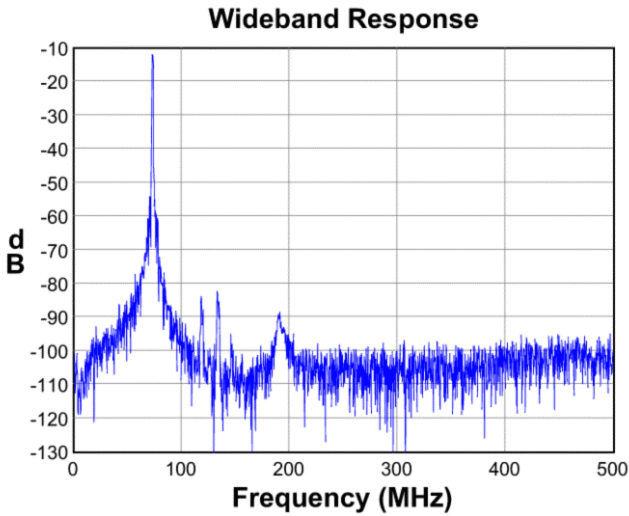
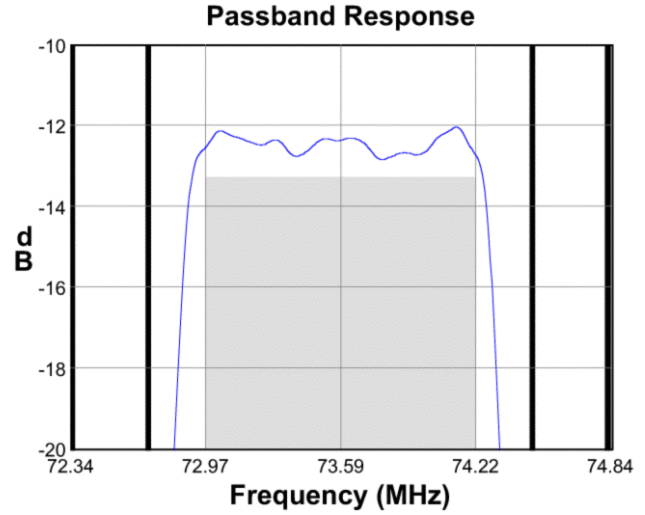
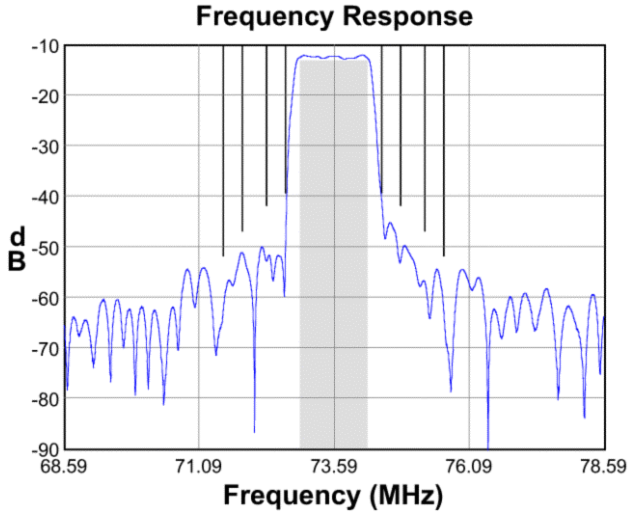
1. All specifications are based on the test circuit shown below
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. Measured relative to minimum insertion loss
5. This is the optimum impedance in order to achieve the performance shown

Manual Test Circuit:



Data Sheet

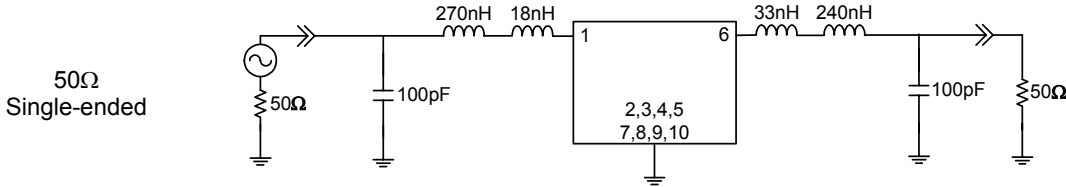
Typical Performance (at +25°C)



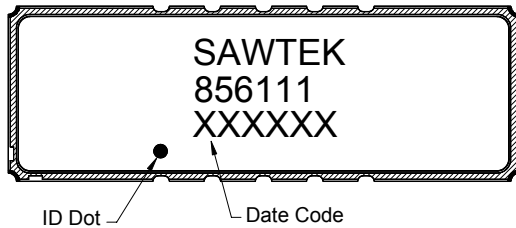
Data Sheet

Matching Schematics

Actual matching values may vary due to PCB layout and parasitics

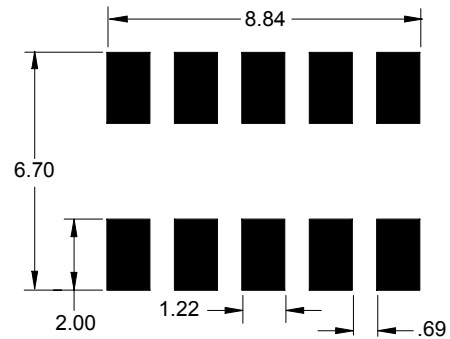


Marking



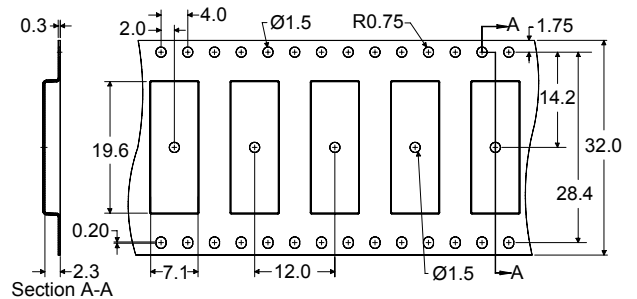
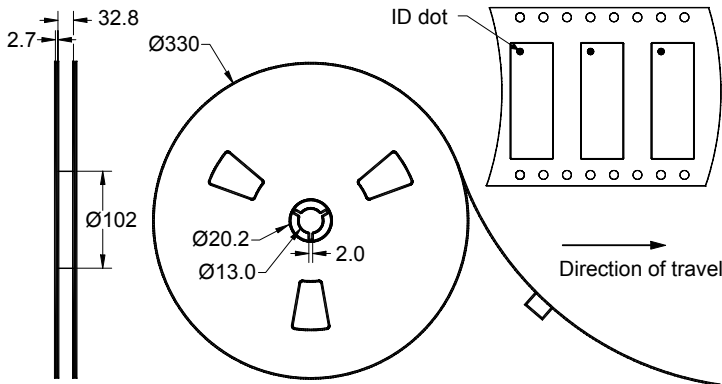
The date code consists of: day of the current year (Julian, 3 digits), last digit of the year (1 digit) and hour (2 digits)

PCB Footprint



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
Operating Temperature Range	T	-40	+85	°C
Storage Temperature Range	T _{stg}	-40	+85	°C

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 Surface Acoustic Wave (SAW) 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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