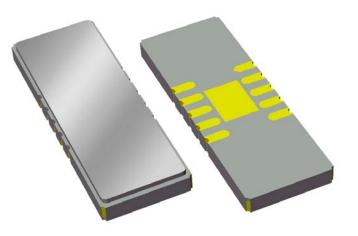


Data Sheet

Part Number 855735 70 MHz SAW Filter

Features

- For broadband applications
- Typical 3 dB bandwidth of 0.31 MHz
- High attenuation
- Single-ended operation
- Ceramic Surface Mount Package (SMP)
- Replaces Sawtek P/N 851541 (BW 3dB=0.25 MHz)
- Hermetic
- RoHS compliant (2002/95/EC), Pb-free (pb)

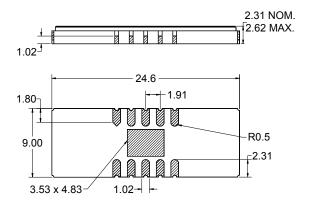


Package

Surface Mount 24.60 x 9.00 x 2.31 mm

Pin Configuration

Bottom View



Dimensions shown are nominal in millimeters All tolerances are ± 0.15 mm except overall length and width +0.13mm/-0.20mm

Body: *Al*₂O₃ ceramic Lid: *Kovar*, *Ni* plated Terminations: *Au* plating 0.5 - 1.0μm, over a 2 - 6μm *Ni* plating 1 2 3 4 5

Pin No.	Description	
1	Input return	
5	Output	
6	Output return	
10	Input	
2,3,4	Case ground	
7,8,9	Case ground	



Part Number 855735 70 MHz SAW Filter

Data Sheet

Electrical Specifications ⁽¹⁾

Operating Temperature Range: ⁽²⁾ 0 to +70 °C

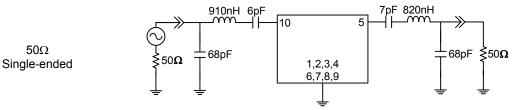
Parameter ⁽³⁾ Minimum Typical Maximum Unit **Center Frequency** 70 MHz _ _ **Minimum Insertion Loss** 16.36 20 dB _ Lower 1 dB Bandedge (4) 69.90 69.935 MHz Upper 1 dB Bandedge 70.09 70.065 MHz Lower 3 dB Bandedge (4) 69.84 _ 69.87 MHz 70.16 Upper 3 dB Bandedge 70.13 MHz Lower 40 dB Bandedge ⁽⁴⁾ 69.5 69.56 _ MHz Upper 40 dB Bandedge 70.46 70.5 MHz **Amplitude Variation** 69.935 - 70.065 MHz 0.42 1 dB **Phase Linearity** 3 69.935 - 70.065 MHz 0.84 deq -**Group Delay Variation** 69.935 - 70.065 MHz 249.70 470 nsec Absolute Delay 3.19 -usec **Relative Attenuation**⁽⁴⁾ 10 - 68 MHz 69 50 dB 72 - 80 MHz 40 52 dB 80 - 135 MHz 50 64.5 dB 49.5 135 - 145 MHz 40 dB 145 - 200 MHz 50 63 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. All attenuation measurements are measured relative to minimum insertion loss
- 5. 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

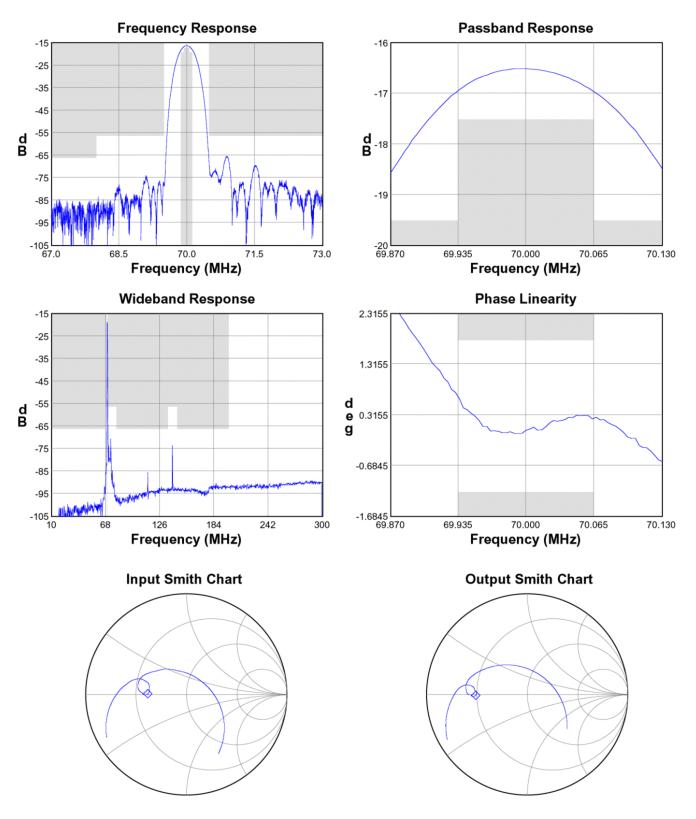




Part Number 855735 70 MHz SAW Filter

Data Sheet

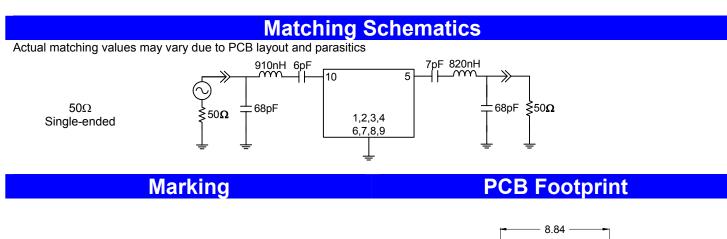
Typical Performance (at +25°C)

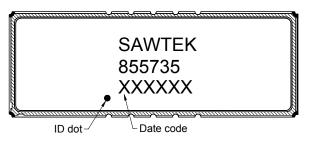


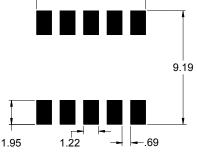


Data Sheet

Part Number 855735 70 MHz SAW Filter

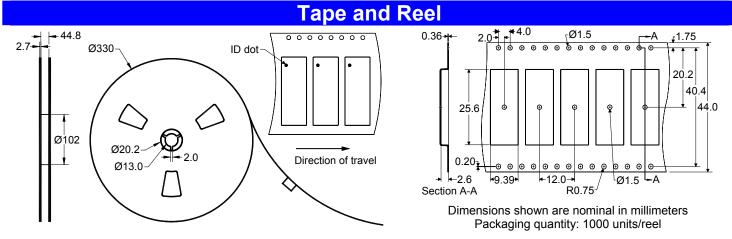






The date code consists of: day of the current year (Julian, 3 digits), last digit of the year (1 digit) and hour (2 digits)

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





Data Sheet

Maximum Ratings						
Parameter	Symbol	Minimum	Typical	Maximum	Unit	
Operating Temperature Range	Т	0	+25	+70	°C	
Storage Temperature Range	T _{stg}	-40	-	+85	О°	

Important Notes

Warnings

- Electrostatic Sensitive Device (ESD)
- Avoid ultrasonic exposure

RoHS Compliance

• This product complies with EU directive 2002/95/EC (RoHS) (



Solderability

• Compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature (see soldering profile)

Links to Additional Technical Information					
PCB Layout Tips	Qualification Flowchart	Soldering Profile			
S-Parameters	RoHS Information	Other Technical Information			

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