

## Excellent Integrated System Limited

Stocking Distributor

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[Johanson Technology Inc.](#)  
[0869LP14A090T](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# “High Frequency Ceramic Solutions”

## 869 MHz Low Pass Filter

P/N 0869LP14A090

Detail Specification

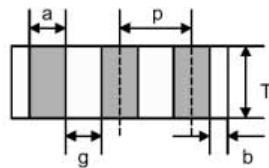
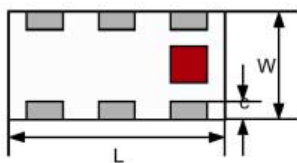
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| Part Number   | Frequency (MHz) | Insertion Loss | Attenuation (min.)                                       | Return Loss  |
|---------------|-----------------|----------------|--|--------------|
| 0869LP14A090_ | 824 - 915       | 0.6 dB max.    | 20 dB @ 2 x f <sub>o</sub><br>15 dB @ 3 x f <sub>o</sub> | 10.9 dB min. |

| Input Power | Impedance | Operating Temperature Range |
|-------------|-----------|-----------------------------|
| 3 Watt max  | 50 Ω      | -40 to +85°C                |

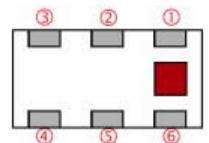
### Mechanical Dimensions

|        | L            | W            | T            | a           | b                   | c            | g            | p            |
|--------|--------------|--------------|--------------|-------------|---------------------|--------------|--------------|--------------|
| Inches | 0.063 ± .004 | 0.032 ± .004 | 0.024 ± .004 | .008 ± .004 | 0.008 ± .004/-0.006 | .006 ± ±.004 | 0.012 ± .004 | 0.020 ± .002 |
| mm     | 1.6 ± 0.1    | 0.80 ± 0.1   | 0.60 ± 0.1   | 0.20 ± 0.1  | 0.20±0.1/-0.15      | 0.15 ± 0.1   | 0.30 ± 0.1   | 0.50 ± 0.05  |



### Terminal Configuration

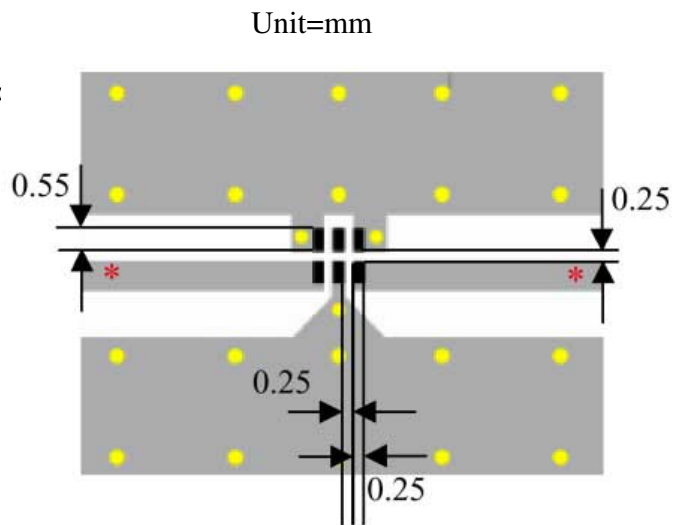
| No. | Function | No. | Function |
|-----|----------|-----|----------|
| 1   | GND      | 4   | OUT      |
| 2   | NC       | 5   | GND      |
| 3   | GND      | 6   | IN       |



### Mounting Considerations

- Mount these devices with brown mark facing up.
- Line width should be designed to provide 50Ω impedance

- Solder Resist
- Land
- Through-hole (φ 0.35)



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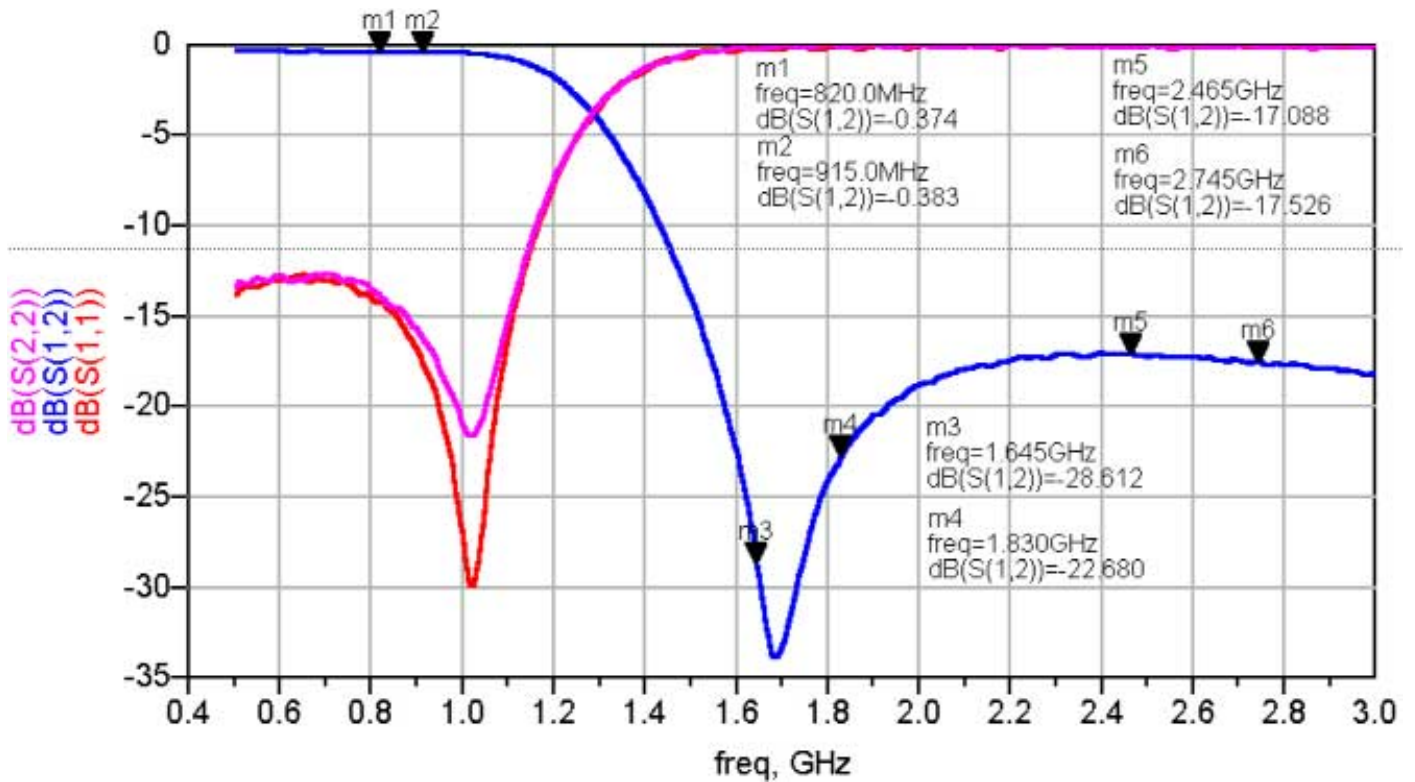
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Typical Insertion Loss / Return Loss



### Delivery

Packaged in embossed tape on 7" reels (4000 / reel)  
 Standard delivery is eight weeks or sooner ARO