

## Overview

The KEMET SSR21H Series AC line filters are compact, low profile, and lightweight.

## Applications

- Audio-visual equipment
- Office automation equipment
- Digital appliances
- Power supply devices
- Common mode choke

## Benefits

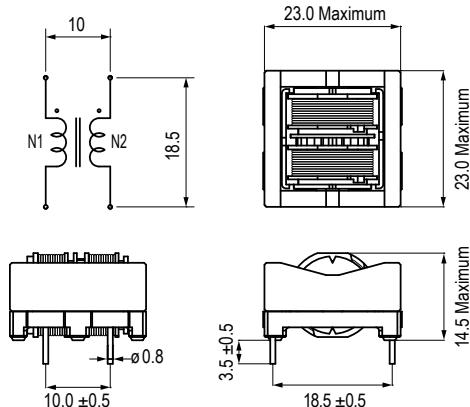
- High degree of characterization as a result of using industry's highest standard, high permeability core.
- Optimized design for compact size, low profile, and lightweight
- Non-split bobbin design for strong inductance characteristics and high impedance
- Inductance up to 155 mH
- Rated Currents up to 2.0 A
- DC Resistances as low as 0.11 Ω



## Part Number System

| SSR21H- | 05   | 680  |
|---------|--|--|
| Series  | Rated Current AC (A)   | Minimum Inductance (mH)  |
| SSR21H- | 0x = 0.x A (e.g., 05 = 0.5 A)<br>x0 = x.0 A (e.g., 10 = 1.0 A) | xxx0 = xxx mH (e.g., 1550 = 155 mH)<br>xx0 = xx mH (e.g., 680 = 68 mH)<br>xxx = xx.x mH (e.g., 425 = 42.5 mH)<br>0xx = x.x mH (e.g., 083 = 8.3 mH) |

## Dimensions – Millimeters



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

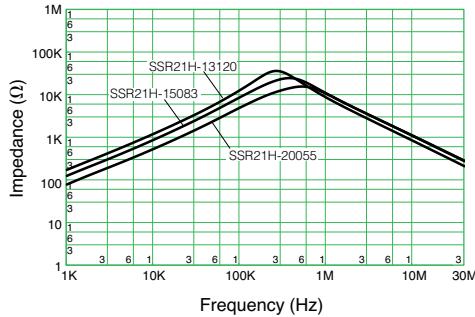
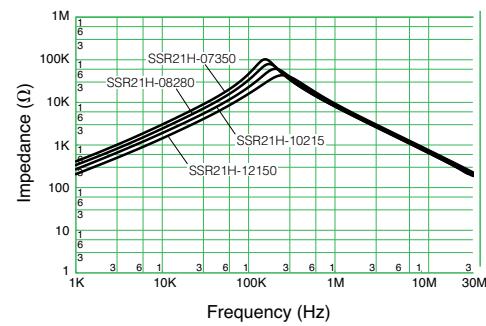
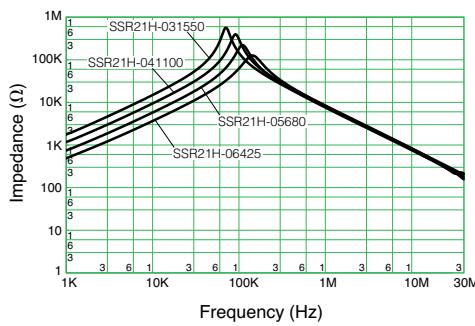
**Table 1 – Ratings & Part Number Reference**

| Part Number   | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/Line (Ω) Maximum | Temperature Rise (K) Maximum | Wire Diameter (mm) | Weight (g) Approximate |
|---------------|----------------------|-------------------------|--------------------------------|------------------------------|--------------------|------------------------|
| SSR21H-031550 | 0.3                  | 155                     | 3.4                            | 45                           | 0.2                | 14                     |
| SSR21H-041100 | 0.4                  | 110                     | 2.2                            | 45                           | 0.23               | 14                     |
| SSR21H-05680  | 0.5                  | 68                      | 1.4                            | 45                           | 0.25               | 14                     |
| SSR21H-06425  | 0.6                  | 42.5                    | 0.89                           | 45                           | 0.28               | 14                     |
| SSR21H-07350  | 0.7                  | 35                      | 0.70                           | 45                           | 0.3                | 14                     |
| SSR21H-08280  | 0.8                  | 28                      | 0.54                           | 45                           | 0.32               | 14                     |
| SSR21H-10215  | 1.0                  | 21.5                    | 0.41                           | 45                           | 0.35               | 14                     |
| SSR21H-12150  | 1.2                  | 15                      | 0.32                           | 45                           | 0.37               | 14                     |
| SSR21H-13120  | 1.3                  | 12                      | 0.24                           | 45                           | 0.4                | 14                     |
| SSR21H-15083  | 1.5                  | 8.3                     | 0.16                           | 45                           | 0.45               | 14                     |
| SSR21H-20055  | 2.0                  | 5.5                     | 0.11                           | 45                           | 0.5                | 14                     |

## Specifications

| Item                             | SSR21H                                  |
|----------------------------------|---|
| Rated Voltage                    | 250 VDC                                 |
| Withstanding Voltage             | 2400 VAC (2 seconds, between lines)     |
| Insulation Resistance            | > 100 MΩ @ 500 VDC (between lines)      |
| Thermal Class                    | E (120°C)                               |
| Operating Temperature Range      | -25°C to T (T = 120 - temperature rise) |
| Inductance Measurement Condition | 10 kHz, 1 mA                            |

## Frequency Characteristics



## Notes on Use

### Shelf Life

- Use within 6 months. If the product is used after a storage period of 6 months or longer, confirm its solderability before use.

### Storage Condition

- Avoid storage in high temperature and high humidity environment, as such condition may deteriorate the solderability of external electrode.
- Avoid storage in atmosphere containing toxic gases or acid (e.g., sulphur and chlorine), as such gas may deteriorate the solderability of external electrode.
- Avoid storage near strong magnetic field, as such condition may magnetize the product.

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