AC Line Filters SSR21H Series High Impedance Type



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 $\ensuremath{\Omega}$

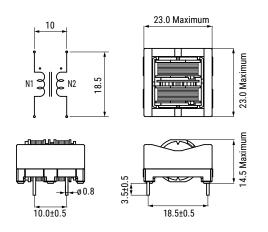


Part Number System

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



Dimensions – Millimeters



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



Table 1 – Ratings & Part Number Reference

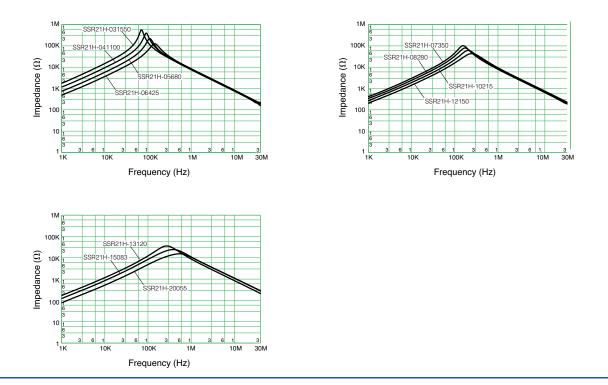
| Part Number | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/ Line (Ω) Maximum | Temperature Rise (K) Maximum | Wire Diameter (mm) | Weight (g) Approximate |
|---------------|-------------------------|-------------------------------|---------------------------------------|------------------------------------|-----------------------|---------------------------|
| 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 | 2,400 VAC (2 seconds, between lines) |
| Insulation Resistance | > 100 MΩ at 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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