



**THE DATASHEET OF
SBC6-152-451**



Overview

Ferrite power inductors are useful in various fields and suitable for DC/DC converters and noise filters.

Applications

Typical applications include LED lighting, xDSL modems, copying machines, flat TVs, smart meters, and power supplies.

Benefits

- Drum core construction
- Nickel-zinc (NiZn) ferrite core
- Magnetic non-shield type
- Operating temperature range of up to +105°C
- RoHS compliant



Ordering Information

| SBC | 1- | 101- | 571 |
|--------|--|--|--|
| Series | Core Size | Inductance Code (μH) | Rate Current Code (mA) |
| SBC | Outer size x height 1 = Φ 4.5 x 6.5 2 = Φ 6.0 x 6.0 3 = Φ 8.0 x 7.0 4 = Φ 8.0 x 10.0 6 = Φ 11.0 x 13.0 7 = Φ 14.0 x 12.0 8 = Φ 14.0 x 17.0 9 = Φ 11.0 x 10.0 | First two digits represent significant figures. Third digit specifies number of zeros. | First two digits represent significant figures. Third digit specifies number of zeros. |

The presence of an external tube may not be indicated on the surface of sample products.

Dimensions – Millimeters

SBC1

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC1-1R0-312 | ∅ 0.30 | - |
| SBC1-1R5-292 | ∅ 0.30 | - |
| SBC1-2R2-272 | ∅ 0.30 | - |
| SBC1-3R3-232 | ∅ 0.30 | - |
| SBC1-4R7-202 | ∅ 0.30 | - |
| SBC1-6R8-182 | ∅ 0.30 | - |
| SBC1-100-172 | ∅ 0.30 | - |
| SBC1-150-162 | ∅ 0.30 | - |
| SBC1-220-132 | ∅ 0.28 | - |
| SBC1-330-102 | ∅ 0.24 | - |
| SBC1-470-711 | - | ∅ 0.50 |
| SBC1-680-651 | - | ∅ 0.50 |
| SBC1-101-571 | - | ∅ 0.50 |
| SBC1-151-431 | - | ∅ 0.50 |
| SBC1-221-391 | - | ∅ 0.50 |
| SBC1-331-341 | - | ∅ 0.50 |
| SBC1-471-301 | - | ∅ 0.50 |
| SBC1-561-291 | - | ∅ 0.50 |
| SBC1-681-251 | - | ∅ 0.50 |
| SBC1-102-211 | - | ∅ 0.50 |
| SBC1-152-181 | - | ∅ 0.50 |

[Soft leads]



*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

SBC2

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC2-1R0-612 | ∅ 0.60 | - |
| SBC2-1R5-402 | ∅ 0.50 | - |
| SBC2-3R3-352 | ∅ 0.45 | - |
| SBC2-4R7-262 | ∅ 0.40 | - |
| SBC2-6R8-242 | ∅ 0.40 | - |
| SBC2-100-212 | ∅ 0.40 | - |
| SBC2-150-162 | ∅ 0.35 | - |
| SBC2-220-132 | ∅ 0.32 | - |
| SBC2-330-112 | ∅ 0.28 | - |
| SBC2-470-951 | ∅ 0.28 | - |
| SBC2-680-871 | ∅ 0.28 | - |
| SBC2-101-671 | - | ∅ 0.60 |
| SBC2-151-501 | - | ∅ 0.60 |
| SBC2-221-411 | - | ∅ 0.60 |
| SBC2-331-341 | - | ∅ 0.60 |
| SBC2-471-271 | - | ∅ 0.60 |
| SBC2-681-211 | - | ∅ 0.60 |
| SBC2-102-181 | - | ∅ 0.60 |
| SBC2-152-141 | - | ∅ 0.60 |
| SBC2-222-121 | - | ∅ 0.60 |
| SBC2-272-101 | - | ∅ 0.60 |
| SBC2-332-900 | - | ∅ 0.60 |

[Soft leads]



*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

Dimensions – Millimeters cont.

SBC3

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC3-1R2-752 | ∅ 0.80 | - |
| SBC3-1R5-632 | ∅ 0.70 | - |
| SBC3-2R2-602 | ∅ 0.70 | - |
| SBC3-3R3-472 | ∅ 0.60 | - |
| SBC3-4R7-422 | ∅ 0.60 | - |
| SBC3-6R8-392 | ∅ 0.60 | - |
| SBC3-100-362 | ∅ 0.60 | - |
| SBC3-150-232 | ∅ 0.50 | - |
| SBC3-220-202 | ∅ 0.45 | - |
| SBC3-330-172 | ∅ 0.40 | - |
| SBC3-470-142 | ∅ 0.40 | - |
| SBC3-680-112 | ∅ 0.35 | - |
| SBC3-101-961 | ∅ 0.32 | - |
| SBC3-151-791 | ∅ 0.30 | - |
| SBC3-221-681 | - | ∅ 0.60 |
| SBC3-331-551 | - | ∅ 0.60 |
| SBC3-471-491 | - | ∅ 0.60 |
| SBC3-561-421 | - | ∅ 0.60 |
| SBC3-681-361 | - | ∅ 0.60 |
| SBC3-102-281 | - | ∅ 0.60 |
| SBC3-122-281 | - | ∅ 0.60 |
| SBC3-152-251 | - | ∅ 0.60 |
| SBC3-222-191 | - | ∅ 0.60 |
| SBC3-332-151 | - | ∅ 0.60 |
| SBC3-472-121 | - | ∅ 0.60 |
| SBC3-682-111 | - | ∅ 0.60 |



SBC4

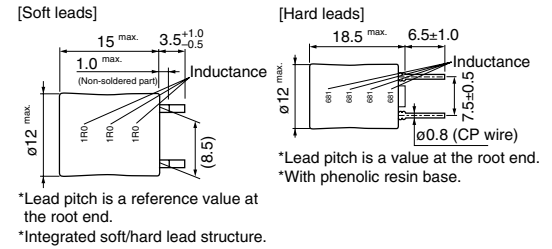
| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC4-1R0-742 | ∅ 0.80 | - |
| SBC4-1R5-712 | ∅ 0.80 | - |
| SBC4-2R7-662 | ∅ 0.80 | - |
| SBC4-3R3-642 | ∅ 0.80 | - |
| SBC4-4R7-582 | ∅ 0.70 | - |
| SBC4-6R8-452 | ∅ 0.60 | - |
| SBC4-100-292 | ∅ 0.50 | - |
| SBC4-150-232 | ∅ 0.45 | - |
| SBC4-220-202 | ∅ 0.45 | - |
| SBC4-330-182 | ∅ 0.45 | - |
| SBC4-470-162 | ∅ 0.45 | - |
| SBC4-680-122 | ∅ 0.35 | - |
| SBC4-101-102 | ∅ 0.32 | - |
| SBC4-151-861 | ∅ 0.32 | - |
| SBC4-221-721 | - | ∅ 0.60 |
| SBC4-331-591 | - | ∅ 0.60 |
| SBC4-471-491 | - | ∅ 0.60 |
| SBC4-681-431 | - | ∅ 0.60 |
| SBC4-102-291 | - | ∅ 0.60 |
| SBC4-152-221 | - | ∅ 0.60 |
| SBC4-222-211 | - | ∅ 0.60 |
| SBC4-332-161 | - | ∅ 0.60 |
| SBC4-472-141 | - | ∅ 0.60 |
| SBC4-682-111 | - | ∅ 0.60 |
| SBC4-103-111 | - | ∅ 0.60 |



Dimensions – Millimeters cont.

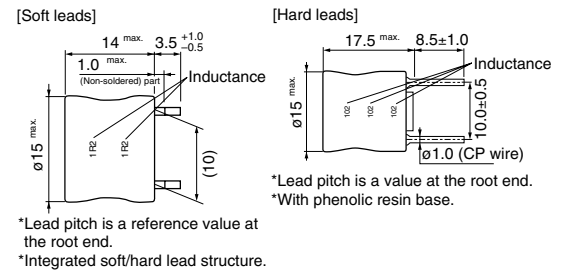
SBC6

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC6-1R0-962 | ∅ 1.20 | - |
| SBC6-1R5-942 | ∅ 1.20 | - |
| SBC6-2R7-872 | ∅ 1.20 | - |
| SBC6-3R3-852 | ∅ 1.20 | - |
| SBC6-4R7-802 | ∅ 1.20 | - |
| SBC6-6R8-662 | ∅ 1.00 | - |
| SBC6-100-462 | ∅ 0.80 | - |
| SBC6-150-382 | ∅ 0.70 | - |
| SBC6-220-302 | ∅ 0.60 | - |
| SBC6-330-272 | ∅ 0.60 | - |
| SBC6-470-232 | ∅ 0.60 | - |
| SBC6-680-222 | ∅ 0.60 | - |
| SBC6-101-172 | ∅ 0.55 | - |
| SBC6-151-122 | ∅ 0.45 | - |
| SBC6-221-112 | ∅ 0.40 | - |
| SBC6-331-871 | ∅ 0.40 | - |
| SBC6-471-701 | ∅ 0.35 | - |
| SBC6-681-631 | - | ∅ 0.80 |
| SBC6-102-561 | - | ∅ 0.80 |
| SBC6-152-451 | - | ∅ 0.80 |
| SBC6-222-351 | - | ∅ 0.80 |
| SBC6-332-281 | - | ∅ 0.80 |
| SBC6-472-241 | - | ∅ 0.80 |
| SBC6-682-181 | - | ∅ 0.80 |
| SBC6-103-161 | - | ∅ 0.80 |



SBC7

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC7-6R8-612 | ∅ 0.90 | - |
| SBC7-100-532 | ∅ 0.90 | - |
| SBC7-150-482 | ∅ 0.90 | - |
| SBC7-220-432 | ∅ 0.90 | - |
| SBC7-330-342 | ∅ 0.80 | - |
| SBC7-470-282 | ∅ 0.70 | - |
| SBC7-680-222 | ∅ 0.60 | - |
| SBC7-101-192 | ∅ 0.60 | - |
| SBC7-151-172 | ∅ 0.60 | - |
| SBC7-221-132 | ∅ 0.50 | - |
| SBC7-331-941 | ∅ 0.40 | - |
| SBC7-471-851 | ∅ 0.40 | - |
| SBC7-681-701 | ∅ 0.35 | - |
| SBC7-102-541 | - | ∅ 1.00 |
| SBC7-152-481 | - | ∅ 1.00 |
| SBC7-222-421 | - | ∅ 1.00 |
| SBC7-332-361 | - | ∅ 1.00 |
| SBC7-472-281 | - | ∅ 1.00 |
| SBC7-682-211 | - | ∅ 1.00 |
| SBC7-103-191 | - | ∅ 1.00 |



Dimensions – Millimeters cont.

SBC8

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC8-4R7-922 | ∅ 1.40 | - |
| SBC8-6R8-862 | ∅ 1.20 | - |
| SBC8-100-692 | ∅ 1.00 | - |
| SBC8-150-532 | ∅ 0.90 | - |
| SBC8-220-492 | ∅ 0.90 | - |
| SBC8-330-452 | ∅ 0.90 | - |
| SBC8-470-372 | ∅ 0.90 | - |
| SBC8-680-322 | ∅ 0.80 | - |
| SBC8-820-262 | ∅ 0.70 | - |
| SBC8-101-242 | ∅ 0.70 | - |
| SBC8-151-202 | ∅ 0.60 | - |
| SBC8-221-182 | ∅ 0.60 | - |
| SBC8-331-142 | ∅ 0.55 | - |
| SBC8-391-122 | ∅ 0.50 | - |
| SBC8-471-112 | ∅ 0.45 | - |
| SBC8-681-102 | ∅ 0.45 | - |
| SBC8-102-761 | ∅ 0.40 | - |
| SBC8-152-581 | - | ∅ 1.00 |
| SBC8-222-471 | - | ∅ 1.00 |
| SBC8-332-421 | - | ∅ 1.00 |
| SBC8-472-391 | - | ∅ 1.00 |
| SBC8-682-311 | - | ∅ 1.00 |
| SBC8-103-251 | - | ∅ 1.00 |



SBC9

| Part Number | Lead Diameter | |
|--------------|---------------|----------|
| | Soft Lead | Pin Lead |
| SBC9-1R0-982 | ∅ 1.20 | - |
| SBC9-1R5-942 | ∅ 1.20 | - |
| SBC9-2R2-792 | ∅ 1.00 | - |
| SBC9-3R3-622 | ∅ 0.90 | - |
| SBC9-4R7-562 | ∅ 0.80 | - |
| SBC9-6R8-492 | ∅ 0.70 | - |
| SBC9-100-422 | ∅ 0.70 | - |
| SBC9-150-362 | ∅ 0.70 | - |
| SBC9-220-312 | ∅ 0.70 | - |
| SBC9-330-252 | ∅ 0.60 | - |
| SBC9-470-202 | ∅ 0.55 | - |
| SBC9-560-182 | ∅ 0.50 | - |
| SBC9-680-152 | ∅ 0.45 | - |
| SBC9-101-122 | ∅ 0.40 | - |
| SBC9-151-112 | ∅ 0.40 | - |
| SBC9-221-821 | ∅ 0.35 | - |
| SBC9-331-671 | ∅ 0.32 | - |
| SBC9-471-601 | - | ∅ 0.80 |
| SBC9-681-551 | - | ∅ 0.80 |
| SBC9-102-451 | - | ∅ 0.80 |
| SBC9-152-341 | - | ∅ 0.80 |
| SBC9-222-271 | - | ∅ 0.80 |
| SBC9-332-221 | - | ∅ 0.80 |
| SBC9-472-181 | - | ∅ 0.80 |
| SBC9-682-141 | - | ∅ 0.80 |
| SBC9-103-121 | - | ∅ 0.80 |



Environmental Compliance

All KEMET through-hole inductors are RoHS Compliant.



Performance Characteristics

| Series | Item | Performance Characteristics |
|--------|---------------------------|---|
| SBC1 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 1 – 1,500 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.03 – 8.00 Ω maximum |
| | Rated current range | 0.18 – 3.10 A |
| SBC2 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 1 – 3,300 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.01 – 13.80 Ω maximum |
| SBC3 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 1.2 – 6,800 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.01 – 14.50 Ω maximum |
| | Rated current range | 0.11 – 7.50 A |
| SBC4 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 1 – 10,000 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.01 – 19.50 Ω maximum |
| | Rated current range | 0.11 – 7.40 A |

Performance Characteristics cont.

| Series | Item | Performance Characteristics |
|--------|---------------------------|---|
| SBC6 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 1 – 10,000 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.01 – 13.60 Ω maximum |
| | Rated current range | 0.16 – 9.60 A |
| SBC7 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 6.8 – 10,000 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.02 – 10.30 Ω maximum |
| | Rated current range | 0.19 – 6.10 A |
| SBC8 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 4.7 – 10,000 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.01 – 6.90 Ω maximum |
| | Rated current range | 0.25 – 9.20 A |
| SBC9 | Operating temperature | -20°C to +105°C (including self-temperature rise) |
| | Rated inductance range | 1 – 10,000 µH at 10 kHz, 1 mA |
| | Inductance tolerance | ±10% – ±20% |
| | Rated DC resistance range | 0.01 – 16.10 Ω maximum |
| | Rated current range | 0.12 – 9.80 A |

Inductance Distribution (µH)

1 - 10,000 µH



Table 1 – Ratings & Part Number Reference

| Part Number | Inductance L (μH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
|--------------|-----------------------------------|----------------------|---------------------------|-----------------------------|-------------------------------|--------------------|-----------|----------|------------|
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |
| SBC1-1R0-312 | 1.0 | ±20% | 0.03 | 3.10 | 4.30 | 5.20 | • | | 0.350 |
| SBC1-1R5-292 | 1.5 | ±20% | 0.03 | 2.90 | 4.00 | 4.00 | • | | 0.500 |
| SBC1-2R2-272 | 2.2 | ±20% | 0.04 | 2.70 | 3.70 | 3.20 | • | | 0.347 |
| SBC1-3R3-232 | 3.3 | ±20% | 0.04 | 2.30 | 3.20 | 2.70 | • | | 0.360 |
| SBC1-4R7-202 | 4.7 | ±20% | 0.05 | 2.00 | 2.80 | 2.10 | • | | 0.500 |
| SBC1-6R8-182 | 6.8 | ±20% | 0.06 | 1.80 | 2.50 | 1.90 | • | | 0.500 |
| SBC1-100-172 | 10.0 | ±20% | 0.08 | 1.70 | 2.30 | 1.50 | • | | 0.422 |
| SBC1-150-162 | 15.0 | ±20% | 0.10 | 1.60 | 2.20 | 1.20 | • | | 0.500 |
| SBC1-220-132 | 22.0 | ±20% | 0.13 | 1.30 | 1.80 | 1.00 | • | | 0.500 |
| SBC1-330-102 | 33.0 | ±20% | 0.22 | 1.00 | 1.40 | 0.83 | • | | 0.500 |
| SBC1-470-711 | 47.0 | ±10% | 0.34 | 0.71 | 0.99 | 0.71 | | • | 0.600 |
| SBC1-680-651 | 68.0 | ±10% | 0.42 | 0.65 | 0.91 | 0.59 | | • | 0.600 |
| SBC1-101-571 | 100.0 | ±10% | 0.65 | 0.57 | 0.79 | 0.47 | | • | 0.516 |
| SBC1-151-431 | 150.0 | ±10% | 0.65 | 0.57 | 0.79 | 0.47 | | • | 0.600 |
| SBC1-221-391 | 220.0 | ±10% | 1.20 | 0.39 | 0.54 | 0.32 | | • | 0.600 |
| SBC1-331-341 | 330.0 | ±10% | 1.90 | 0.34 | 0.47 | 0.26 | | • | 0.600 |
| SBC1-471-301 | 470.0 | ±10% | 2.40 | 0.30 | 0.42 | 0.21 | | • | 0.600 |
| SBC1-561-291 | 560.0 | ±10% | 3.40 | 0.29 | 0.40 | 0.20 | | • | 0.520 |
| SBC1-681-251 | 680.0 | ±10% | 3.40 | 0.25 | 0.35 | 0.18 | | • | 0.536 |
| SBC1-102-211 | 1000.0 | ±10% | 4.90 | 0.21 | 0.29 | 0.14 | | • | 0.593 |
| SBC1-152-181 | 1500.0 | ±10% | 8.00 | 0.18 | 0.25 | 0.12 | | • | 0.600 |
| SBC2-1R0-612 | 1.0 | ±20% | 0.01 | 6.10 | 8.50 | 6.40 | • | | 0.610 |
| SBC2-1R5-402 | 1.5 | ±20% | 0.02 | 4.00 | 5.60 | 4.90 | • | | 0.700 |
| SBC2-3R3-352 | 3.3 | ±20% | 0.03 | 3.50 | 4.90 | 4.00 | • | | 0.629 |
| SBC2-4R7-262 | 4.7 | ±20% | 0.04 | 2.60 | 3.60 | 3.10 | • | | 0.700 |
| SBC2-6R8-242 | 6.8 | ±20% | 0.05 | 2.40 | 3.30 | 2.70 | • | | 0.675 |
| SBC2-100-212 | 10.0 | ±20% | 0.06 | 2.10 | 2.90 | 2.10 | • | | 0.731 |
| SBC2-150-162 | 15.0 | ±20% | 0.08 | 1.60 | 2.20 | 1.70 | • | | 0.700 |
| SBC2-220-132 | 22.0 | ±20% | 0.11 | 1.30 | 1.80 | 1.40 | • | | 0.710 |
| SBC2-330-112 | 33.0 | ±20% | 0.18 | 1.10 | 1.50 | 1.20 | • | | 0.700 |
| SBC2-470-951 | 47.0 | ±10% | 0.21 | 0.95 | 1.30 | 1.00 | • | | 0.700 |
| SBC2-680-871 | 68.0 | ±10% | 0.26 | 0.87 | 1.20 | 0.81 | • | | 0.700 |
| SBC2-101-671 | 100.0 | ±10% | 0.41 | 0.67 | 0.93 | 0.68 | | • | 0.890 |
| SBC2-151-501 | 150.0 | ±10% | 0.64 | 0.50 | 0.70 | 0.55 | | • | 0.900 |
| SBC2-221-411 | 220.0 | ±10% | 0.87 | 0.41 | 0.57 | 0.45 | | • | 0.900 |
| SBC2-331-341 | 330.0 | ±10% | 1.40 | 0.34 | 0.47 | 0.37 | | • | 0.900 |
| SBC2-471-271 | 470.0 | ±10% | 2.00 | 0.27 | 0.37 | 0.32 | | • | 0.900 |
| SBC2-681-211 | 680.0 | ±10% | 3.10 | 0.21 | 0.29 | 0.26 | | • | 0.900 |
| SBC2-102-181 | 1000.0 | ±10% | 4.00 | 0.18 | 0.25 | 0.21 | | • | 0.940 |
| SBC2-152-141 | 1500.0 | ±10% | 6.20 | 0.14 | 0.19 | 0.17 | | • | 0.900 |
| SBC2-222-121 | 2200.0 | ±10% | 8.00 | 0.12 | 0.16 | 0.14 | | • | 0.900 |
| SBC2-272-101 | 2700.0 | ±10% | 11.60 | 0.10 | 0.14 | 0.13 | | • | 0.900 |
| SBC2-332-900 | 3300.0 | ±10% | 13.80 | 0.09 | 0.12 | 0.11 | | • | 0.900 |
| SBC3-1R2-752 | 1.2 | ±20% | 0.01 | 7.50 | 10.50 | 9.80 | • | | 1.600 |
| SBC3-1R5-632 | 1.5 | ±20% | 0.01 | 6.30 | 8.80 | 8.30 | • | | 1.600 |
| SBC3-2R2-602 | 2.2 | ±20% | 0.02 | 6.00 | 8.40 | 7.20 | • | | 1.600 |
| SBC3-3R3-472 | 3.3 | ±20% | 0.02 | 4.70 | 6.50 | 5.60 | • | | 1.600 |
| SBC3-4R7-422 | 4.7 | ±20% | 0.02 | 4.20 | 5.80 | 4.60 | • | | 1.600 |
| SBC3-6R8-392 | 6.8 | ±20% | 0.03 | 3.90 | 5.40 | 4.00 | • | | 1.600 |
| SBC3-100-362 | 10.0 | ±20% | 0.03 | 3.60 | 5.00 | 3.00 | • | | 1.650 |
| SBC3-150-232 | 15.0 | ±20% | 0.05 | 2.30 | 3.20 | 2.60 | • | | 1.600 |
| SBC3-220-202 | 22.0 | ±20% | 0.06 | 2.00 | 2.80 | 2.10 | • | | 1.600 |
| SBC3-330-172 | 33.0 | ±20% | 0.09 | 1.70 | 2.30 | 1.80 | • | | 1.600 |
| SBC3-470-142 | 47.0 | ±10% | 0.12 | 1.40 | 1.90 | 1.40 | • | | 1.610 |
| SBC3-680-112 | 68.0 | ±10% | 0.19 | 1.10 | 1.50 | 1.20 | • | | 1.550 |
| SBC3-101-961 | 100.0 | ±10% | 0.26 | 0.96 | 1.30 | 1.00 | • | | 1.536 |
| SBC3-151-791 | 150.0 | ±10% | 0.36 | 0.79 | 1.10 | 0.81 | • | | 1.600 |
| SBC3-221-681 | 220.0 | ±10% | 0.49 | 0.68 | 0.95 | 0.67 | | • | 1.791 |
| Part Number | Inductance L (μH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |

Table 1 – Ratings & Part Number Reference cont.

| Part Number | Inductance L (μH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
|--------------|-----------------------------------|----------------------|---------------------------|-----------------------------|-------------------------------|--------------------|-----------|----------|------------|
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |
| SBC3-331-551 | 330.0 | ±10% | 0.72 | 0.55 | 0.77 | 0.53 | | • | 1.880 |
| SBC3-471-491 | 470.0 | ±10% | 1.02 | 0.49 | 0.68 | 0.46 | | • | 1.850 |
| SBC3-561-421 | 560.0 | ±10% | 1.20 | 0.42 | 0.58 | 0.42 | | • | 1.790 |
| SBC3-681-361 | 680.0 | ±10% | 1.62 | 0.36 | 0.50 | 0.38 | | • | 1.800 |
| SBC3-102-281 | 1000.0 | ±10% | 2.37 | 0.28 | 0.39 | 0.31 | | • | 1.686 |
| SBC3-122-281 | 1200.0 | ±10% | 2.70 | 0.28 | 0.39 | 0.28 | | • | 1.750 |
| SBC3-152-251 | 1500.0 | ±10% | 3.64 | 0.25 | 0.35 | 0.26 | | • | 1.746 |
| SBC3-222-191 | 2200.0 | ±10% | 5.62 | 0.19 | 0.26 | 0.21 | | • | 1.800 |
| SBC3-332-151 | 3300.0 | ±10% | 7.66 | 0.15 | 0.21 | 0.17 | | • | 1.800 |
| SBC3-472-121 | 4700.0 | ±10% | 11.40 | 0.12 | 0.16 | 0.14 | | • | 1.800 |
| SBC3-682-111 | 6800.0 | ±10% | 14.50 | 0.11 | 0.15 | 0.12 | | • | 1.800 |
| SBC4-1R0-742 | 1.0 | ±20% | 0.01 | 7.40 | 10.30 | 14.90 | • | | 1.980 |
| SBC4-1R5-712 | 1.5 | ±20% | 0.01 | 7.10 | 9.90 | 12.60 | • | | 2.400 |
| SBC4-2R7-662 | 2.7 | ±20% | 0.02 | 6.60 | 9.20 | 9.60 | • | | 2.080 |
| SBC4-3R3-642 | 3.3 | ±20% | 0.02 | 6.40 | 8.90 | 8.60 | • | | 2.180 |
| SBC4-4R7-582 | 4.7 | ±20% | 0.02 | 5.80 | 8.10 | 7.10 | • | | 2.070 |
| SBC4-6R8-452 | 6.8 | ±20% | 0.03 | 4.50 | 6.30 | 5.60 | • | | 1.972 |
| SBC4-100-292 | 10.0 | ±20% | 0.04 | 2.90 | 4.00 | 4.60 | • | | 1.910 |
| SBC4-150-232 | 15.0 | ±20% | 0.06 | 2.30 | 3.20 | 4.00 | • | | 1.880 |
| SBC4-220-202 | 22.0 | ±20% | 0.07 | 2.00 | 2.80 | 3.20 | • | | 1.950 |
| SBC4-330-182 | 33.0 | ±20% | 0.09 | 1.80 | 2.50 | 2.60 | • | | 2.400 |
| SBC4-470-162 | 47.0 | ±10% | 0.11 | 1.60 | 2.20 | 2.10 | • | | 2.424 |
| SBC4-680-122 | 68.0 | ±10% | 0.19 | 1.20 | 1.60 | 1.80 | • | | 2.050 |
| SBC4-101-102 | 100.0 | ±10% | 0.26 | 1.00 | 1.40 | 1.50 | • | | 2.012 |
| SBC4-151-861 | 150.0 | ±10% | 0.36 | 0.86 | 1.20 | 1.20 | • | | 2.164 |
| SBC4-221-721 | 220.0 | ±10% | 0.47 | 0.72 | 1.00 | 1.00 | | • | 2.490 |
| SBC4-331-591 | 330.0 | ±10% | 0.67 | 0.59 | 0.82 | 0.81 | | • | 2.600 |
| SBC4-471-491 | 470.0 | ±10% | 0.95 | 0.49 | 0.68 | 0.68 | | • | 2.620 |
| SBC4-681-431 | 680.0 | ±10% | 1.32 | 0.43 | 0.60 | 0.57 | | • | 2.600 |
| SBC4-102-291 | 1000.0 | ±10% | 2.15 | 0.29 | 0.40 | 0.47 | | • | 2.600 |
| SBC4-152-221 | 1500.0 | ±10% | 3.24 | 0.22 | 0.30 | 0.38 | | • | 2.400 |
| SBC4-222-211 | 2200.0 | ±10% | 4.97 | 0.21 | 0.29 | 0.32 | | • | 2.600 |
| SBC4-332-161 | 3300.0 | ±10% | 7.69 | 0.16 | 0.22 | 0.26 | | • | 2.600 |
| SBC4-472-141 | 4700.0 | ±10% | 9.78 | 0.14 | 0.19 | 0.21 | | • | 2.600 |
| SBC4-682-111 | 6800.0 | ±10% | 15.00 | 0.11 | 0.15 | 0.18 | | • | 2.600 |
| SBC4-103-111 | 10000.0 | ±10% | 19.50 | 0.11 | 0.15 | 0.14 | | • | 2.590 |
| SBC6-1R0-962 | 1.0 | ±20% | 0.01 | 9.60 | 13.40 | 37.70 | • | | 4.500 |
| SBC6-1R5-942 | 1.5 | ±20% | 0.01 | 9.40 | 13.10 | 30.90 | • | | 4.770 |
| SBC6-2R7-872 | 2.7 | ±20% | 0.01 | 8.70 | 12.10 | 22.60 | • | | 4.820 |
| SBC6-3R3-852 | 3.3 | ±20% | 0.01 | 8.50 | 11.90 | 20.00 | • | | 5.641 |
| SBC6-4R7-802 | 4.7 | ±20% | 0.01 | 8.00 | 11.20 | 16.10 | • | | 6.230 |
| SBC6-6R8-662 | 6.8 | ±20% | 0.02 | 6.60 | 9.20 | 13.60 | • | | 5.650 |
| SBC6-100-462 | 10.0 | ±20% | 0.03 | 4.60 | 6.40 | 10.90 | • | | 5.030 |
| SBC6-150-382 | 15.0 | ±20% | 0.03 | 3.80 | 5.30 | 9.10 | • | | 4.769 |
| SBC6-220-302 | 22.0 | ±20% | 0.05 | 3.00 | 4.20 | 7.50 | • | | 4.630 |
| SBC6-330-272 | 33.0 | ±20% | 0.06 | 2.70 | 3.70 | 6.10 | • | | 4.855 |
| SBC6-470-232 | 47.0 | ±10% | 0.08 | 2.30 | 3.20 | 5.00 | • | | 5.400 |
| SBC6-680-222 | 68.0 | ±10% | 0.09 | 2.20 | 3.00 | 4.10 | • | | 5.930 |
| SBC6-101-172 | 100.0 | ±10% | 0.13 | 1.70 | 2.30 | 3.50 | • | | 5.860 |
| SBC6-151-122 | 150.0 | ±10% | 0.23 | 1.20 | 1.60 | 2.80 | • | | 5.402 |
| SBC6-221-112 | 220.0 | ±10% | 0.33 | 1.10 | 1.50 | 2.30 | • | | 5.810 |
| SBC6-331-871 | 330.0 | ±10% | 0.41 | 0.87 | 1.20 | 1.90 | • | | 5.769 |
| SBC6-471-701 | 470.0 | ±10% | 0.63 | 0.70 | 0.98 | 1.60 | • | | 5.560 |
| SBC6-681-631 | 680.0 | ±10% | 0.98 | 0.63 | 0.88 | 1.30 | | • | 5.700 |
| SBC6-102-561 | 1000.0 | ±10% | 1.21 | 0.56 | 0.78 | 1.10 | | • | 6.117 |
| SBC6-152-451 | 1500.0 | ±10% | 1.80 | 0.45 | 0.63 | 0.90 | | • | 6.500 |
| SBC6-222-351 | 2200.0 | ±10% | 2.63 | 0.35 | 0.49 | 0.73 | | • | 6.500 |
| SBC6-332-281 | 3300.0 | ±10% | 4.24 | 0.28 | 0.39 | 0.61 | | • | 6.500 |
| Part Number | Inductance L (μH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |

Table 1 – Ratings & Part Number Reference cont.

| Part Number | Inductance L (μH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
|--------------|-----------------------------------|----------------------|---------------------------|-----------------------------|-------------------------------|--------------------|-----------|----------|------------|
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |
| SBC6-472-241 | 4700.0 | ±10% | 5.92 | 0.24 | 0.33 | 0.50 | | • | 6.232 |
| SBC6-682-181 | 6800.0 | ±10% | 8.92 | 0.18 | 0.25 | 0.42 | | • | 6.068 |
| SBC6-103-161 | 10000.0 | ±10% | 13.60 | 0.16 | 0.22 | 0.35 | | • | 5.875 |
| SBC7-6R8-612 | 6.8 | ±20% | 0.02 | 6.10 | 8.50 | 13.90 | • | | 8.000 |
| SBC7-100-532 | 10.0 | ±20% | 0.02 | 5.30 | 7.20 | 11.80 | • | | 8.000 |
| SBC7-150-482 | 15.0 | ±20% | 0.03 | 4.80 | 6.70 | 9.60 | • | | 8.000 |
| SBC7-220-432 | 22.0 | ±20% | 0.03 | 4.30 | 6.00 | 7.80 | • | | 8.870 |
| SBC7-330-342 | 33.0 | ±20% | 0.05 | 3.40 | 4.70 | 6.20 | • | | 8.000 |
| SBC7-470-282 | 47.0 | ±10% | 0.06 | 2.80 | 3.90 | 5.20 | • | | 8.000 |
| SBC7-680-222 | 68.0 | ±10% | 0.09 | 2.20 | 3.00 | 4.50 | • | | 7.715 |
| SBC7-101-192 | 100.0 | ±10% | 0.12 | 1.90 | 2.60 | 3.60 | • | | 8.440 |
| SBC7-151-172 | 150.0 | ±10% | 0.16 | 1.70 | 2.30 | 2.90 | • | | 8.000 |
| SBC7-221-132 | 220.0 | ±10% | 0.25 | 1.30 | 1.80 | 2.40 | • | | 8.730 |
| SBC7-331-941 | 330.0 | ±10% | 0.45 | 0.94 | 1.30 | 2.00 | • | | 8.000 |
| SBC7-471-851 | 470.0 | ±10% | 0.55 | 0.85 | 1.10 | 1.60 | • | | 8.000 |
| SBC7-681-701 | 680.0 | ±10% | 0.81 | 0.70 | 0.98 | 1.40 | • | | 8.000 |
| SBC7-102-541 | 1000.0 | ±10% | 1.20 | 0.54 | 0.75 | 1.10 | | • | 8.974 |
| SBC7-152-481 | 1500.0 | ±10% | 1.58 | 0.48 | 0.67 | 0.93 | | • | 10.000 |
| SBC7-222-421 | 2200.0 | ±10% | 2.18 | 0.42 | 0.58 | 0.77 | | • | 10.000 |
| SBC7-332-361 | 3300.0 | ±10% | 3.51 | 0.36 | 0.50 | 0.63 | | • | 10.000 |
| SBC7-472-281 | 4700.0 | ±10% | 4.83 | 0.28 | 0.39 | 0.53 | | • | 10.000 |
| SBC7-682-211 | 6800.0 | ±10% | 7.00 | 0.21 | 0.29 | 0.44 | | • | 10.000 |
| SBC7-103-191 | 10000.0 | ±10% | 10.30 | 0.19 | 0.26 | 0.36 | | • | 10.000 |
| SBC8-4R7-922 | 4.7 | ±20% | 0.01 | 9.20 | 12.80 | 16.80 | • | | 10.000 |
| SBC8-6R8-862 | 6.8 | ±20% | 0.02 | 8.60 | 12.00 | 13.90 | • | | 10.010 |
| SBC8-100-692 | 10.0 | ±20% | 0.02 | 6.90 | 9.60 | 11.80 | • | | 10.257 |
| SBC8-150-532 | 15.0 | ±20% | 0.03 | 5.30 | 7.40 | 9.60 | • | | 11.000 |
| SBC8-220-492 | 22.0 | ±20% | 0.03 | 4.90 | 6.80 | 7.80 | • | | 12.200 |
| SBC8-330-452 | 33.0 | ±20% | 0.04 | 4.50 | 6.30 | 6.50 | • | | 12.540 |
| SBC8-470-372 | 47.0 | ±10% | 0.04 | 3.70 | 5.10 | 5.40 | • | | 12.877 |
| SBC8-680-322 | 68.0 | ±10% | 0.06 | 3.20 | 4.40 | 4.30 | • | | 12.581 |
| SBC8-820-262 | 82.0 | ±10% | 0.07 | 2.60 | 3.60 | 4.10 | • | | 10.000 |
| SBC8-101-242 | 100.0 | ±10% | 0.09 | 2.40 | 3.30 | 3.50 | • | | 10.022 |
| SBC8-151-202 | 150.0 | ±10% | 0.15 | 2.00 | 2.80 | 3.00 | • | | 11.190 |
| SBC8-221-182 | 220.0 | ±10% | 0.17 | 1.80 | 2.50 | 2.40 | • | | 11.000 |
| SBC8-331-142 | 330.0 | ±10% | 0.25 | 1.40 | 1.90 | 2.00 | • | | 12.500 |
| SBC8-391-122 | 390.0 | ±10% | 0.37 | 1.20 | 1.60 | 1.90 | • | | 12.000 |
| SBC8-471-112 | 470.0 | ±10% | 0.42 | 1.10 | 1.50 | 1.60 | • | | 11.000 |
| SBC8-681-102 | 680.0 | ±10% | 0.52 | 1.00 | 1.40 | 1.30 | • | | 12.200 |
| SBC8-102-761 | 1000.0 | ±10% | 0.78 | 0.76 | 1.00 | 1.10 | • | | 12.328 |
| SBC8-152-581 | 1500.0 | ±10% | 1.30 | 0.58 | 0.81 | 0.92 | | • | 13.000 |
| SBC8-222-471 | 2200.0 | ±10% | 1.80 | 0.47 | 0.67 | 0.78 | | • | 13.000 |
| SBC8-332-421 | 3300.0 | ±10% | 2.50 | 0.42 | 0.58 | 0.63 | | • | 13.000 |
| SBC8-472-391 | 4700.0 | ±10% | 3.20 | 0.39 | 0.54 | 0.53 | | • | 13.000 |
| SBC8-682-311 | 6800.0 | ±10% | 4.90 | 0.31 | 0.43 | 0.44 | | • | 13.000 |
| SBC8-103-251 | 10000.0 | ±10% | 6.90 | 0.25 | 0.35 | 0.36 | | • | 13.000 |
| SBC9-1R0-982 | 1.0 | ±20% | 0.01 | 9.80 | 13.70 | 31.10 | • | | 4.040 |
| SBC9-1R5-942 | 1.5 | ±20% | 0.01 | 9.40 | 13.10 | 25.40 | • | | 4.500 |
| SBC9-2R2-792 | 2.2 | ±20% | 0.01 | 7.90 | 11.00 | 21.50 | • | | 4.500 |
| SBC9-3R3-622 | 3.3 | ±20% | 0.02 | 6.20 | 8.60 | 16.40 | • | | 4.500 |
| SBC9-4R7-562 | 4.7 | ±20% | 0.02 | 5.60 | 7.80 | 14.70 | • | | 4.500 |
| SBC9-6R8-492 | 6.8 | ±20% | 0.03 | 4.90 | 6.80 | 12.10 | • | | 3.930 |
| SBC9-100-422 | 10.0 | ±20% | 0.03 | 4.20 | 5.80 | 9.60 | • | | 4.070 |
| SBC9-150-362 | 15.0 | ±20% | 0.04 | 3.60 | 5.00 | 7.50 | • | | 4.500 |
| SBC9-220-312 | 22.0 | ±20% | 0.04 | 3.10 | 4.30 | 6.20 | • | | 4.220 |
| SBC9-330-252 | 33.0 | ±20% | 0.06 | 2.50 | 3.50 | 5.20 | • | | 4.500 |
| SBC9-470-202 | 47.0 | ±10% | 0.09 | 2.00 | 2.80 | 4.30 | • | | 4.500 |
| SBC9-560-182 | 56.0 | ±10% | 0.10 | 1.80 | 2.50 | 4.00 | • | | 4.500 |
| Part Number | Inductance L (μH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |

Table 1 – Ratings & Part Number Reference cont.

| Part Number | Inductance L (µH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
|--------------|-----------------------------------|----------------------|---------------------------|-----------------------------|-------------------------------|--------------------|-----------|----------|------------|
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |
| SBC9-680-152 | 68.0 | ±10% | 0.15 | 1.50 | 2.10 | 3.70 | • | | 5.200 |
| SBC9-101-122 | 100.0 | ±10% | 0.21 | 1.20 | 1.60 | 3.00 | • | | 4.500 |
| SBC9-151-112 | 150.0 | ±10% | 0.26 | 1.10 | 1.50 | 2.40 | • | | 4.500 |
| SBC9-221-821 | 220.0 | ±10% | 0.41 | 0.82 | 1.10 | 2.00 | • | | 4.500 |
| SBC9-331-671 | 330.0 | ±10% | 0.58 | 0.67 | 0.93 | 1.60 | • | | 4.480 |
| SBC9-471-601 | 470.0 | ±10% | 0.82 | 0.60 | 0.84 | 1.30 | | • | 5.200 |
| SBC9-681-551 | 680.0 | ±10% | 1.05 | 0.55 | 0.77 | 1.10 | | • | 4.650 |
| SBC9-102-451 | 1000.0 | ±10% | 1.53 | 0.45 | 0.63 | 0.87 | | • | 5.200 |
| SBC9-152-341 | 1500.0 | ±10% | 2.49 | 0.34 | 0.47 | 0.72 | | • | 5.200 |
| SBC9-222-271 | 2200.0 | ±10% | 3.78 | 0.27 | 0.38 | 0.60 | | • | 4.500 |
| SBC9-332-221 | 3300.0 | ±10% | 5.68 | 0.22 | 0.31 | 0.48 | | • | 5.200 |
| SBC9-472-181 | 4700.0 | ±10% | 8.20 | 0.18 | 0.25 | 0.40 | | • | 5.200 |
| SBC9-682-141 | 6800.0 | ±10% | 12.70 | 0.14 | 0.20 | 0.34 | | • | 5.200 |
| SBC9-103-121 | 10000.0 | ±10% | 16.10 | 0.12 | 0.17 | 0.28 | | • | 5.200 |
| Part Number | Inductance L (µH) at 10 kHz, 1 mA | Inductance Tolerance | DC Resistance (Ω) Maximum | Rated Current (A) ΔT = 20°C | Current (Reference Value) (A) | | Terminal | | Weight (g) |
| | | | | | ΔT = 40°C | L Change Rate -10% | Soft Lead | Pin Lead | |

Packaging

| Series | Lead Type | Packaging Type | SPQ | Inner Package | Quantity | Outer Package | Quantity |
|--------|-----------|----------------|-----|--|----------|---|----------|
| SBC1 | Soft lead | Bulk Vinyl bag | 100 | Box  | 5,000 | Box L 210 mm W 380 mm H 220 mm  | 10,000 |
| | Hard lead | | | | | | |
| SBC2 | Soft lead | Tray | 250 | Tray  | 250 | Box L 295 mm W 275 mm h 160 mm  | 3,750 |
| | Hard lead | Bulk Vinyl bag | 100 | Box  | 4,000 | Box L 210 mm W 380 mm H 220 mm  | 8,000 |
| SBC3 | Soft lead | Tray | 400 | Tray  | 400 | Box L 210 mm W 380 mm H 220 mm  | 4,000 |
| | Hard lead | Bulk Vinyl bag | 100 | Box  | 2,000 | Box L 210 mm W 380 mm H 220 mm  | 4,000 |
| SBC4 | Soft lead | Tray | 300 | Tray  | 300 | Box L 210 mm W 380 mm H 220 mm  | 3,000 |
| | Hard lead | Bulk Vinyl bag | 100 | Box  | 2,000 | Box L 210 mm W 380 mm H 220 mm  | 4,000 |

Packaging cont.

| Series | Lead Type | Packaging Type | SPQ | Inner Package | Quantity | Outer Package | Quantity |
|--------|-----------|----------------|-----|---|----------|---|----------|
| SBC6 | Soft lead | Tray | 200 | Tray  | 200 | Box L 210 mm W 380 mm H 220 mm  | 1,600 |
| | Hard lead | Bulk Vinyl bag | 100 | Box  | 1,000 | Box L 210 mm W 380 mm H 220 mm  | 2,000 |
| SBC7 | Soft lead | Bulk Vinyl bag | 50 | Box  | 500 | Box L 210 mm W 380 mm H 220 mm  | 1,000 |
| | Hard lead | | | | | | |
| SBC8 | Soft lead | Tray | 150 | Tray  | 150 | Box L 210 mm W 380 mm H 220 mm  | 900 |
| | Hard lead | Bulk Vinyl bag | 50 | Box  | 500 | Box L 210 mm W 380 mm H 220 mm  | 1,000 |
| SBC9 | Soft lead | Tray | 250 | Tray  | 250 | Box L 210 mm W 380 mm H 220 mm  | 2,000 |
| | Hard lead | Bulk Vinyl bag | 100 | Box  | 1,000 | Box L 210 mm W 380 mm H 220 mm  | 2,000 |

Handling Precautions

Inductors should be stored in normal working environments. While the inductors themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long-term storage.

KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 70% relative humidity. Atmospheres should be free of chlorine and sulfur-bearing compounds. Temperature fluctuations should be minimized to avoid condensation on the parts. For optimized solderability, inductors' stock should be used promptly, preferably within six months of receipt.

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