

# PRODUCT SPECIFICATION

## Reliability Test

Item	Specifications	Test conditions
Solderability	The metalized area must have 90% minimum solder coverage.	Dip pads in flux and dip in solder pot at 255°C ±5°C.
Resistance to soldering heat	There must be no case deformation change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be reflowed onto a PC board using solder paste. Solder process shall be at a maximum temperature of 260°C. For solder paste:>217°C for 90 seconds
Vibration	There must be no case deformation change in dimensions. Inductance must not change more than the stated tolerance.	Solder specimen inductor on the test printed circuit board. Apply vibrations in each of the x,y and z directions for 2 hours for a total of 6 hours. Frequency : 10~50 Hz Amplitude : 1.5mm
High temperature resistance	There must be no case deformation change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to temperature 125±2°C for 500±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Static Humidity	Inductors must not have a shorted or openwinding.	Inductors shall be subjected to temperature 85±2°C and 90 to 95%RH. for ten 24-hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Component adhesion (push test)	Inductors shall be subjected to 0.45	Inductors shall be reflow soldered (232°C ±5°C for 10 seconds) to a tinned copper substrate. A force gauge shall be applied to the side of the component. The device must withstand the stated force without a failure of the termination.

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## Low temperature storage

There must be no case deformation or change in dimensions.

Inductance must not change more than the stated tolerance.

Inductors shall be subjected to temperature  $-40\pm 2^{\circ}\text{C}$  for  $48\pm 12$  hours.

Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours.

## Resistance to solvent

There must be no case deformation, change in dimensions, or obliteration of marking.

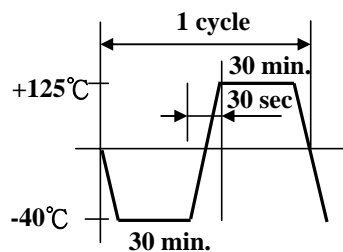
Inductors must withstand 6 minutes of alcohol or water.

## Thermal shock

There must be no case deformation or change in dimensions.

Inductance must not change more than the stated tolerance.

Inductors shall be subjected to 10 cycles to the following temperature cycle:



Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.

**MOTOCRAFT**