

## SMD TYPE FEED THROUGH EMI FILTERS FOR POWER LINE [ TNH Series ]

The TNH series is the SMD-type feed through -shaped EMI filter of the T-type circuit composition. It compounded a high capacity multi layer feed through capacitor and a ferrite core. The TNH series can be used for the heavy-current circuit because DC resistance of the inner-conductor is very low.

### Features

- Large insertion loss is gotten with the broadband by the T-type circuit composition by the high capacity multi layer feed through capacitor and the ferrite core.
- Because the DC resistance value is low for the feed through structure, it is possible to use for a heavy-current line to 15 A of continuation.
- Because it composes by the ceramics and metal, it is excellent about the heat resistance, the reliability.
- RoHS Compliant.

### Applications

- The power modules such as the switching power supply, the DC-DC converter
- The DC power line of the laptop computer, the office automation
- The DC power line of the industrial electronic device such as the measuring instrument, the robot, the FA equipment

### Part Number List and Specifications

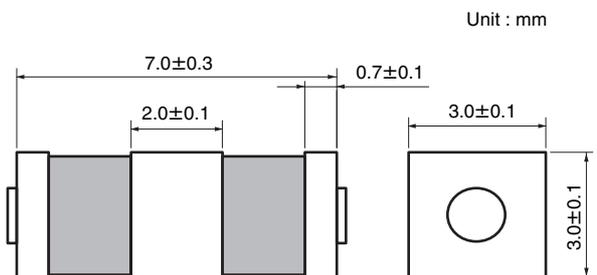
Part number	Capacitance (pF)	Rated voltage DC(V)	Rated current DC(A)	DC resistance mΩ Max.	Temperature characteristics
TNH73R2A473S15A	47,000pF	100V	15A	2 mΩMax	X7R
TNH73R2A104S15A	100,000pF	100V	15A	2 mΩMax	X7R

\* "-T" is suffixed to taping products.

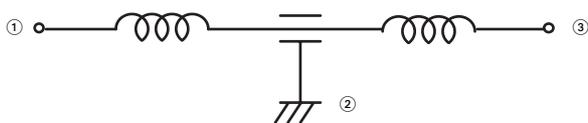
### Appearance



### Dimensions

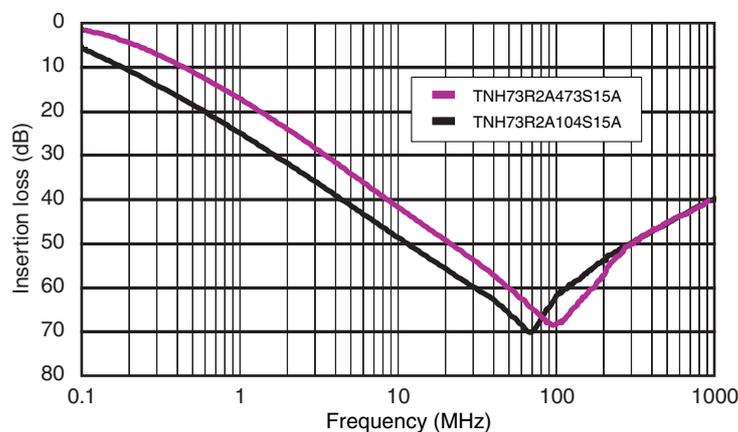


### Equivalent circuit



①,③ : Input, Output  
② : ground

### Insertion loss (Reference)



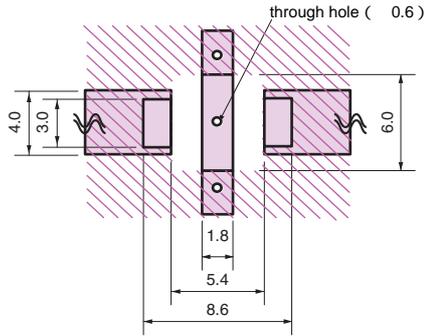
# SMD TYPE FEED THROUGH EMI FILTERS FOR POWER LINE [ TNH Series ]

## ■Soldering

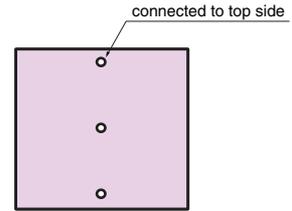
### 1.basic design

Recommended Land Pattern for reflow soldering

( 1 ) Top side



( 2 ) Bottom side



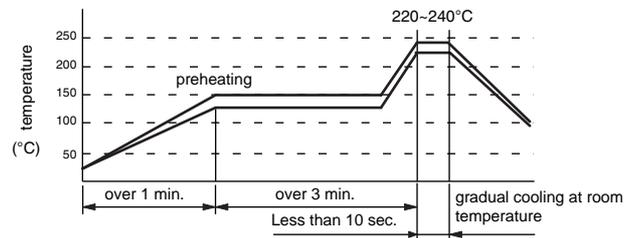
Unit : mm  
 copper foil : 35 μ m  
 resist

### 2. Attention to soldering

TNH series are use it for reflow soldering.

For soldering, please refer to the soldering curves below.  
 The excessive heating fuses the inner solder and the short circuit and the opening and so on sometimes occur.

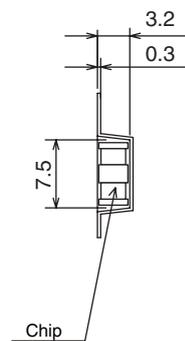
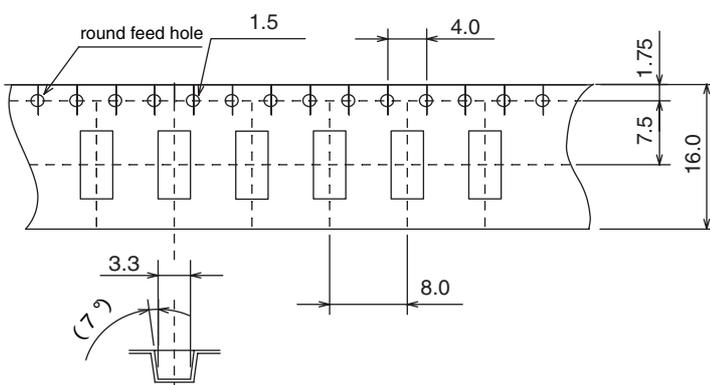
reflow soldering recommended conditions



## ■Taping

Taping specifications (Plastic Carrier)

unit : mm



## ■Package qty.

type	package qty.	
taping qty.	1,000pcs/reel	
tray qty.	minimum unit	100pcs
	maximum qty.	1,000pcs