



### **BMS Transformer/CMC**

Part No:

**TMYB1-391NL** 

#### **Description:**

Transformer with Common Mode Choke for Battery Management System 12 pin SMT

#### **Features:**

Dual channel Working voltage 1500 VDC IATF 16949 Automotive grade



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## 1. Introduction



Featuring a compatible footprint with industry BMS Transformers, and designed to work in demanding automotive environmental conditions, the Taoglas TMYB1-391NL is a BMS Transformer with Common Mode Choke of 12 pins and Dual channel for Operation voltage of 1500VDC.

The Taoglas Magnetics Product Team have over fifteen years of experience in magnetics design and high-quality manufacturing. With ever expanding portfolio, we provide trusted products and services to our customers within a wide range of applications such as:

- Electric Vehicle
- Energy Storage Systems
- Data Center UPS
- Solar energy storage
- Renewable Energy

Taoglas offers a full line of BMS transformers, and common mode chokes for energy storage systems that require serial port safety isolation and EMI noise suppression. These transformers are designed for battery systems with large voltage differences that demand component-to-component isolation.

The Taoglas BMS Transformers portfolio is intended to perform in highly energy-efficiency modern vehicles such as EVs, HEVs, and PHEVs.

All Taoglas parts meet AEC-Q200 requirements for automotive applications. For more information on the range of products or for assistance with integration, contact your regional Taoglas customer support team.



# 2. Specifications

Electrical Performance @25°C					
OCL	150uH ~ 450uH @100KHz/0.1V				
Turns Ratio (±2%)	1CT: 1CT				
Insulation & Creepage(mm)	>3mm				
Working voltage	1500Vdc				
Hi-Pot	4300Vrms				

Environmental Specifications				
Operating Temperature	-40°C TO +125°C			

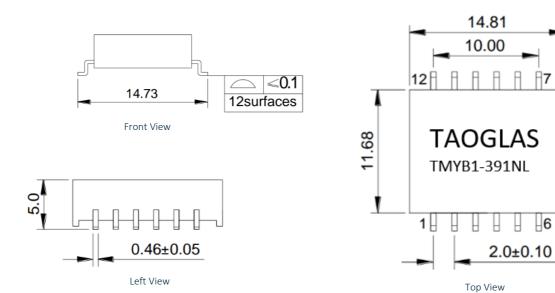
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

Storage requirements				
Humidity	MSL - 1			
Storage Temperature	-40°C TO +125°C			



# 3. Mechanical

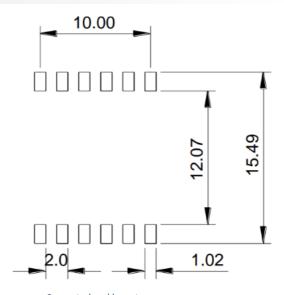
### 3.1 Mechanical Drawings



Mechanical Specifications				
Length	14.81 mm			
Width	11.68 mm			
Height	5.00 mm			
Weight	0.98 g			
Mounting Style	Surface Mount (SMT)			

Dimensions are in millimeters with the following tolerances:  $X.XX = \pm 0.25$ 

### 3.2 Pad Layout



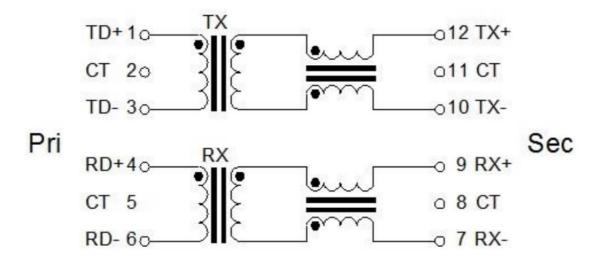
Suggested pad layout

Dimensions are in millimeters with the following tolerances:  $X.XX = \pm 0.10$ 

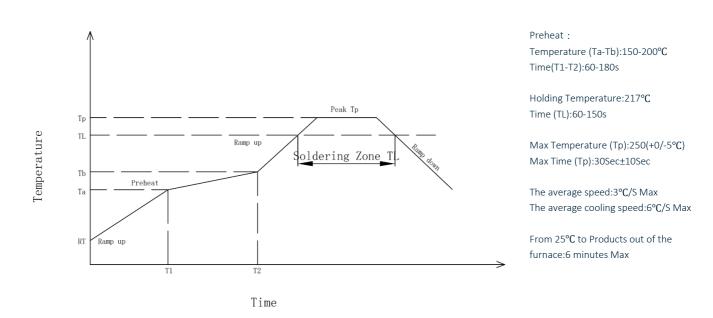


## 4. Electrical

#### 4.1 Electrical Drawings



### 4.2 Profile of Reflow Solder





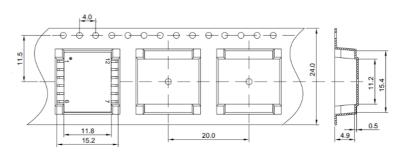
# 5. Packaging

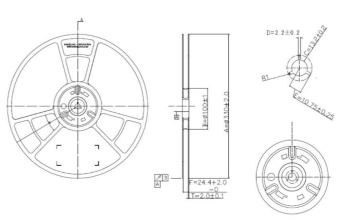
### **5.1** SPQ

1 reel = 400 pcs

Reel (mm) = 24x11.5x9.7

Weight = 900g







Carton dimensions: 365\*365\*350 mm

Carton Weight: 9.5 kg



### 5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

DATE: XXXX-XX-XX

QYT: XXX PCS DC: XXXX

XXX 1 CS

.

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX B/N: XXXXXXXX

QYT: XXX PCS DC: XXXX

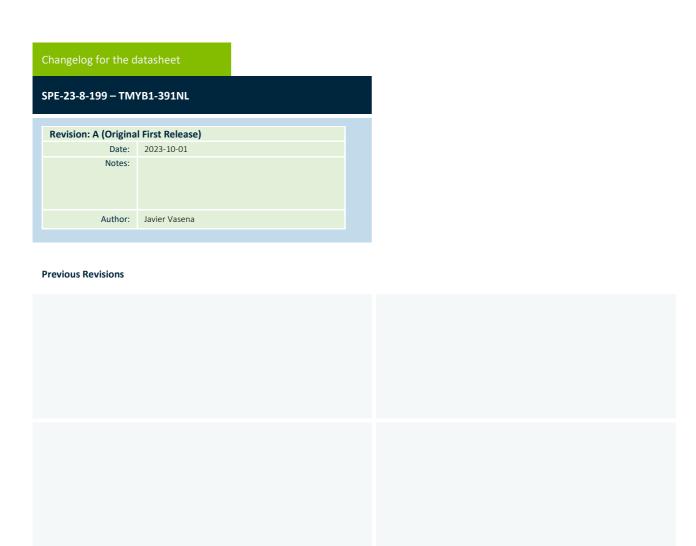
DATE: XXXX-XX-XX

SPQ Label (8x5cm)

Carton Label (8x5cm)



# Changelog







www.taoglas.com

