

Revision change record

Page: 1/3

JANSUM P/N: TM1202SR

Part Name: BMS Transformer/CMC

Rev.	Description	Drawn	Checked	Approved	Issue date
A/0	Specification Issued	Li Hua Lai	Yan Bin Zhang	Chan Hui Wang	2023-6-18
A/1	Update PAD size	Li Hua Lai	Yan Bin Zhang	Chan Hui Wang	2023-8-16
A/2	Add UL number	Ya Chen Zhou	/	Yan Bin Zhang	2024-12-23

Feature

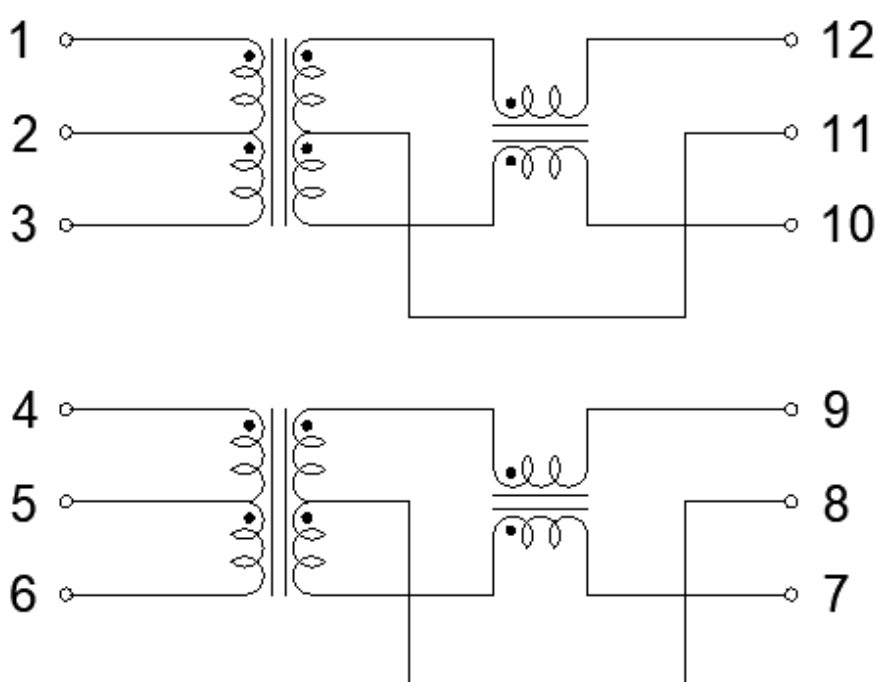
Page: 2/3

- Comply with RoHS requirements.
- Compliant to J-STD-020: level 1, no moisture sensitive. (Tp: 250°C Max.)
- Operating temperature range: -40°C to +125°C.
- Storage temperature range: -50°C to +125°C.
- Product scrap disposal based on the local laws and regulations.

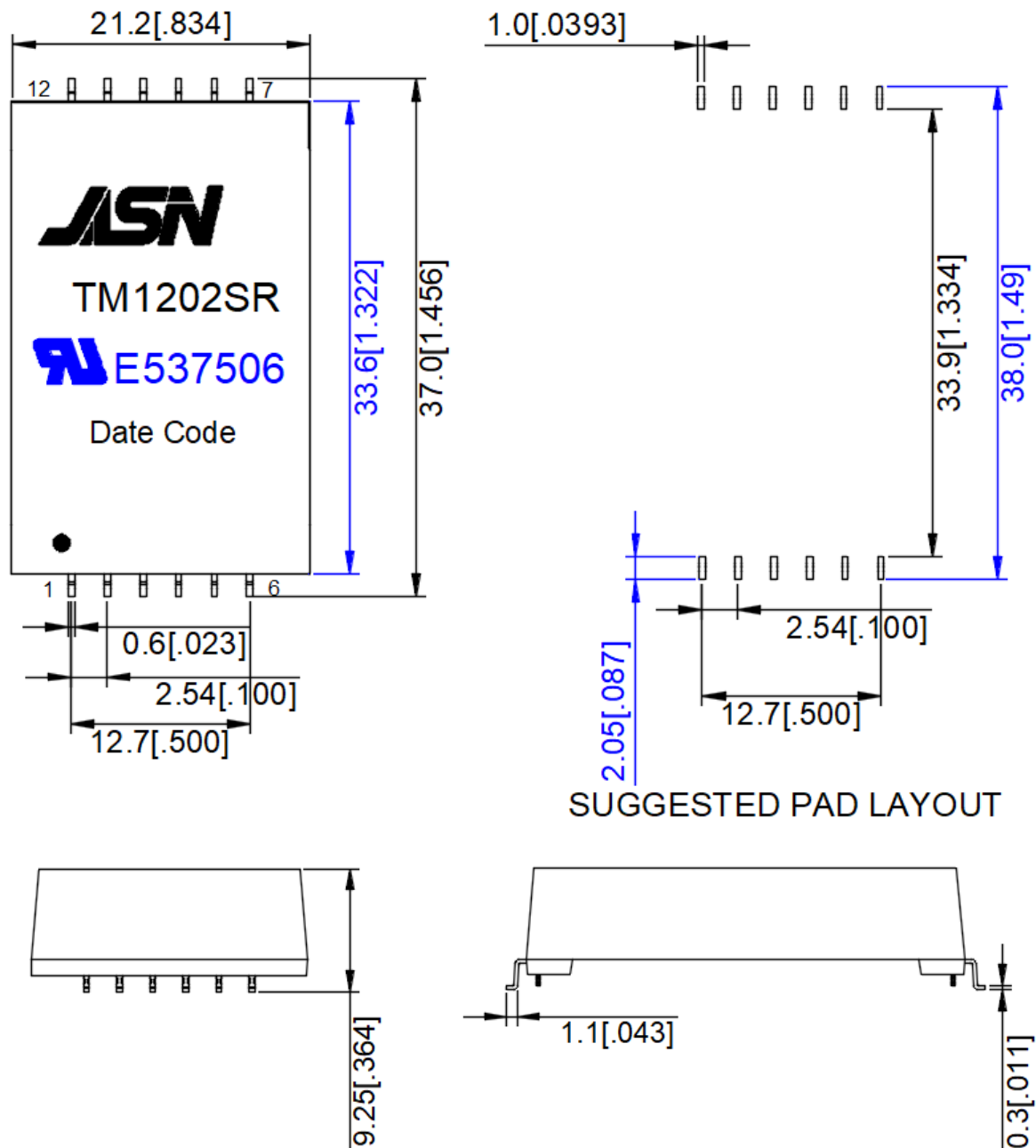
Electrical Specifications @ 25°C

OCL:	150 uH ~ 450uH. @100KHz/0.1V (-40°C to +125°C)
Hi-Pot :	8000VDC/1mA/60Sec or 5650VAC/1mA/60Sec
Turns Ratio:	1:1±2%
Leakage Inductance::	0.5uH Max @100KHz/0.1V
DCR:	0.45 ohm Max. @Transformer side
	0.80 ohm Max. @CM choke side
Insertion Loss:	-1.2dB Max 4MHz
Return Loss:	-6dB Min @4MHz (Z out= 100 Ω)
CMRR:	-50dB Typ @1-100MHz
Design Construction:	Reinforced insulation per IEC62477-1, IEC60664-1, IEC62368-1; Creepage distance > 30mm, Clearance distance > 25mm. Pollution Degree II, Material group CTI I; Overvoltage Category III, up to 2km above sea level. UL pending.
Design Construction:	Functional insulation; Working voltage 1600VDC;

Schematic



Mechanical



1. Unless otherwise specified, all tolerances are $\pm 0.25 [0.01]$

2. Coplanarity: $0.1 [0.004]$

3. Unit mm [inch]

*: Number of core winding

1. Unit weight: 6.8g/pcs.

2. 200pcs/ volume.

3. 400pcs/ box.