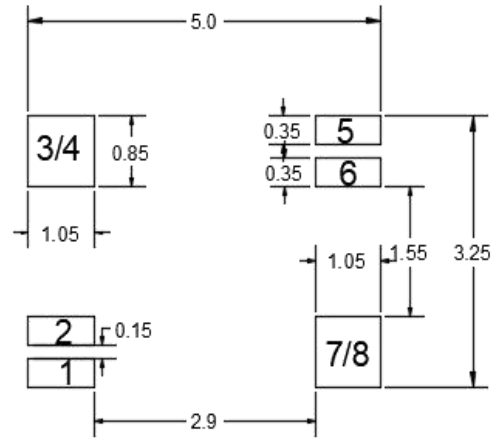
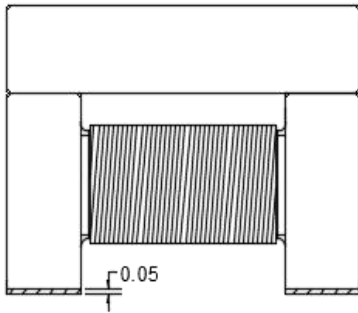
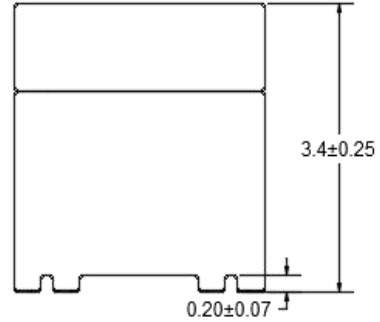
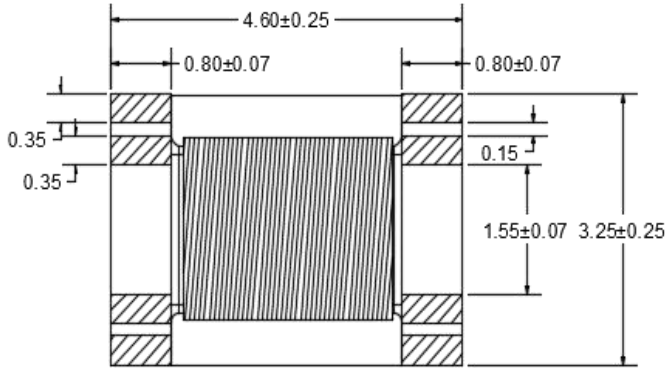


## A. MECHANICAL (unit:mm)



SUGGESTED LAND PATTERN

S TM 4532 D - 121

A B C D E

A: Series

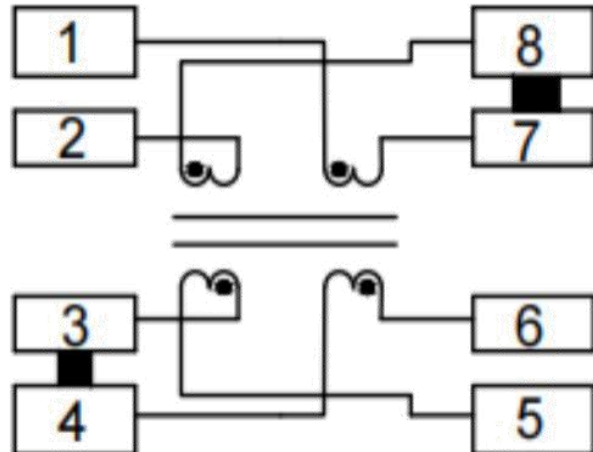
B: LAN Transformer

C: Dimension 4.5\*3.2

D: TYPE

E: Inductance 121=120uH

## B. SCHEMATICS





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## C.Features

1. Compliant with ROHS requirements
2. Compliant with Halogen Free requirement
3. Compliant with IEEE 802.3an standard
4. Operating temperature  $-40^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$
5. Support LAN interface for network equipment, communication equipment, digital appliances, etc

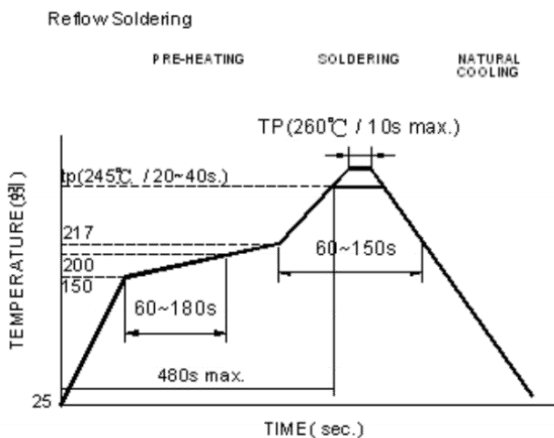
## D. ELECTRICAL SPECIFICATIONS @25°C

Part Number	DESCRIPTION	Turns Ratio $\pm 5\%$	Insertion Loss (dB Typ.)				Return Loss (dB Typ.)					OCL 100K/0.1V 8mA DC ( $\mu\text{H}$ Min) $-25^{\circ}\text{C}$ TO $+110^{\circ}\text{C}$	OCL 100K/0.1V 8mA DC ( $\mu\text{H}$ Min) $-40^{\circ}\text{C}$ TO $-25^{\circ}\text{C}$	CW/W; 100K/0.1V (pF Max)	PoE Rating	Leakage Inductance 100k/0.1v ( $\mu\text{H}$ Max)	Hi-pot (Vrms 1mA 60S Min)
			Max				Min										
			1-100 MHz	100-125 MHz	200-250 MHz	300-500 MHz	1-100 MHz	100-200 MHz	200-250 MHz	300-400 MHz	400-500 MHz						
STM4532D-351	100M/1000M	1:1	-0.8	-1.0	/	/	-10	/	/	/	/	350	300	35	NON-PoE	0.5	1500
STM4532D-181	2.5G/5G	1:1	-0.8	-1.0	-2.0	/	-20	-13	-10	/	/	180	160	35	NON-PoE	0.5	1500
STM4532D-121	10G	1:1	-0.9	-0.9	-1.6	-2.0	-20	-17	-14	-13	-12	120	100	35	NON-PoE	0.5	1500

## E. RECOMMEND REFLOW SOLDERING CURVE

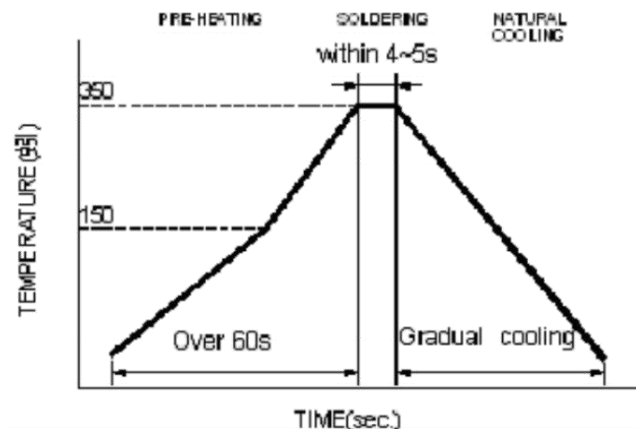
1. Lead Free Solder re-flow

2 Soldering Iron



Reflow times: 3 times max.

Iron Soldering



Iron Soldering times: 1 times max.



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## F. Typical Impedance v.s. Frequency Curve



10G



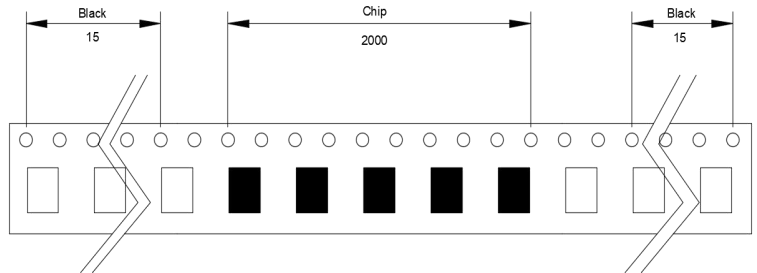
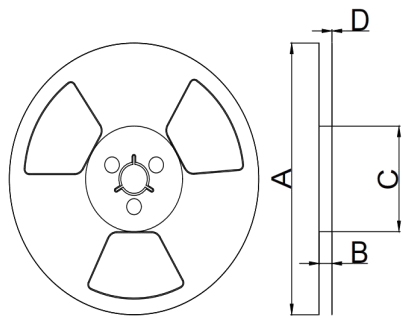
2.5G/5G



100M/1000M

## G. PACKAGE INFORMATION

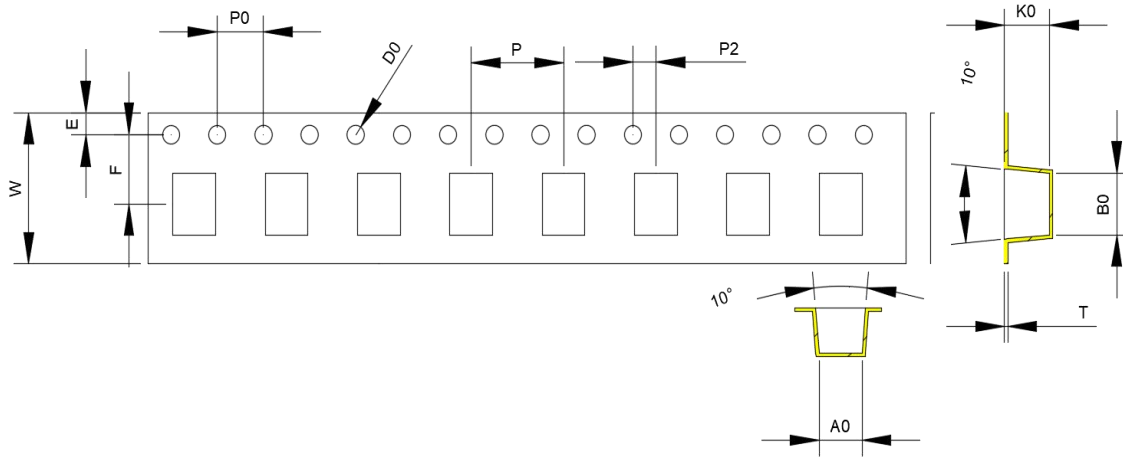
### 1. TAPE AND REEL SPECIFICATIONS



DIM A±2	DIM B+0.8	DIM C±2	DIM D±0.2
330	13	103	1.6

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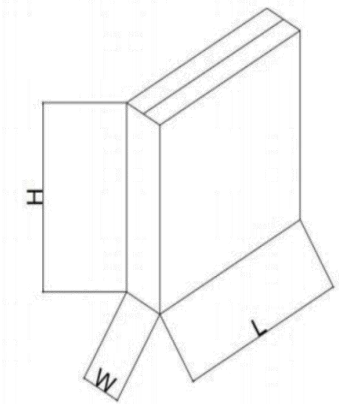
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ITEM	W	A0	BO	KO	E	F	D0	P0	P	P2	T
DIM	12	3.7	4.88	3.6	1.75	5.5	1.5	4	8	2	0.3
TOLE	±0.3	±0.15	±0.15	±0.15	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

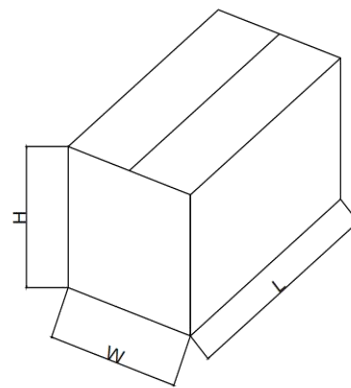
## 2. PACKAGE SPECIFICATIONS

### Inner Carton



L(mm)	W(mm)	H(mm)
342±5	100±5	342±5

### Export Carton



L(mm)	W(mm)	H(mm)
345±5	320±5	355±5