

# TP 4210 TYPE

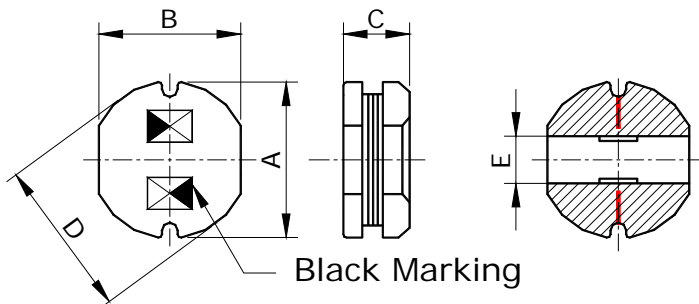
## ●FEATURE

1. Low profile and small size (Height: 1.00mm Max)
2. High current capacity, Large terminal surface for good PCB bonding

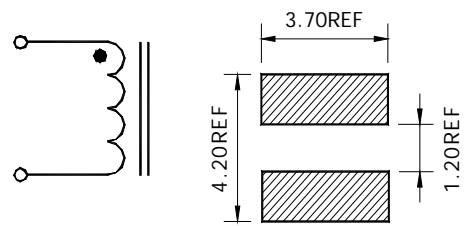
## ●Applications

1. Digital Camera, Portable CDR-W, Camcorder and others

## ●Shape and Dimension



## ●Schematics and Land Patterns(mm)



A=4.10±0.10m/m ; B=3.75±0.20m/m ; C=1.00m/m Max; D=4.20m/m REF; E=1.40m/m REF

## ●Specification

Part Number	L(uH)	Marking	DCR(Ω Max)	IDC(A)(Max)
TP4210-1R0M	1.0±20%	A ∇	0.120	3.00
TP4210-2R2M	2.2±20%	B ρ	0.180	2.40
TP4210-3R3M	3.3±20%	C ∩	0.216	1.80
TP4210-4R7M	4.7±20%	D ∩	0.252	1.45
TP4210-5R6M	5.6±20%	E ∃	0.336	1.35
TP4210-6R8M	6.8±20%	F ∟	0.360	1.20
TP4210-8R2M	8.2±20%	G ∩	0.432	1.15
TP4210-100M	10±20%	H H	0.456	1.05
TP4210-150M	15±20%	I I	0.750	0.90
TP4210-220M	22±20%	J ∟	1.044	0.70
TP4210-330M	33±20%	K ∫	1.848	0.55
TP4210-470M	47±20%	L ∟	2.172	0.45

Note1. Measurement frequency of Inductance value : at 1MHz

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

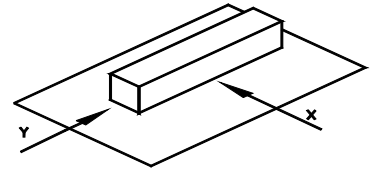
Note3. IDC :  $\Delta L/L \leq 20\%$ (This indicates the value of current when the inductances is 20% lower than its initial value at D.C. superimposition or D.C. current when at  $\Delta t=40^\circ\text{C}$ , which is lower.( $T_a=20^\circ\text{C}$ ))

Note4. Inductance tolerance: M: ±20%

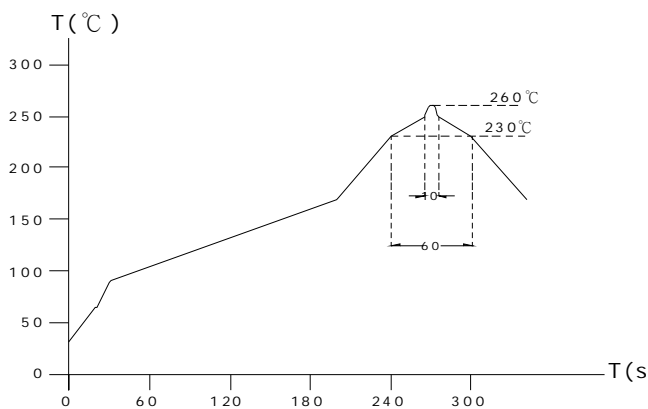
Note5. Packaging: Taping ; Quantity : 1000 Piece/reel

## GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.  
Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.
4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient  $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$  (-25~+80°C degree Celsius), inductance deviation within  $\pm 5.0\%$ , after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within  $\pm 5\%$ , after 96 hours in 90~95% relative humidity at  $40 \pm 2^{\circ}\text{C}$  and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within  $\pm 5\%$ , after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within  $\pm 5\%$ , after being dropped once with 981m/s<sup>2</sup> (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow)
11. Storage condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 105°C (after PCB) , Humidity Range: 50% ~ 70% RH
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead-free heat endurance test



Lead-free the recommended reflow condition

