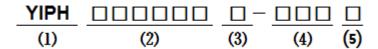
Features

- Use flat wire in it and could endure higher current(5 Amps).
- It is mounted in the boards with surface mounting equipment.

Applications

- Computer products.(Motherboard, Hard Disk, TV card, Etc.)
- Communication product.(Cordless Phone,Etc.)
- Modem,OA products,power supplier,Etc.
- Countermeasures for complying with CE,FCC VDE or VCCI radialiated emissions.

Product Identification



(1): Type

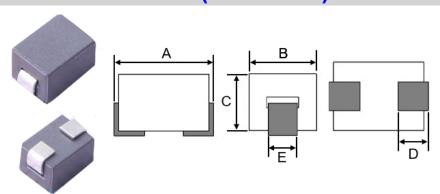
(2): Dimensions

(3): Material Code

(4): Impedance

(5): Taping and Reel

■ Shapes and Dimensions (Unit: mm)

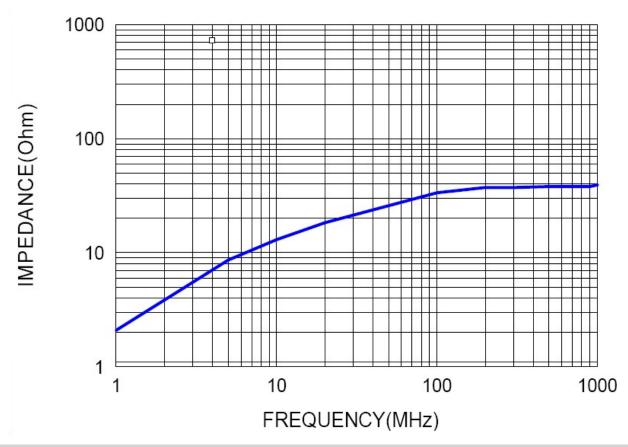


Туре	Α	В	С	D	E
YIPH323023W	3.08+0.10/-0.15	2.90±0.10	2.20±0.10	0.80±0.20	0.85±0.10

■ Electrical requirements

Part Number	Electric	cal Requirements 1	Electrical Requirements 1 DCR Max. Rated			Current	
Part Number	Impedance (Ω)	Test Frequency (MHz)	Impedance (Ω)	Test Frequency (MHz)	(mΩ)	ΔT=40℃ Тур.	Test Frequency (MHz)
YIPH323023W-390T	20±25%	25	39±25%	100	0.6	21.0	1.0

■ Typical Impedance v.s. Frequency Curve



■ Material List

No.	Description	Specification	
а	Core	Ferrite Core	a l
b	Wire	Electroplated nickel-tin flat copper wire	b



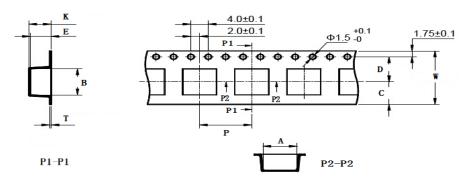
■ Reliability and Test Condition

Item	Performance	Test Condition			
Operating temperature	-40~+125℃(Including self-temperature rise)				
Storage temperature	-40~+125℃(on board)				
Electrical Performance					
70 1		CH3302,CH1320,CHA113009,Aglient E4991A,Agilent 16197A			
Z(Impedance)	Refer to standard electrical characteristics list	LCR Meter			
DCR		CH16502,Agilent 33420A Micro-Ohm Meter.			
		Heat Rated Current(Irms) will cause the coil temperature rise			
Heat Dated Compat/Image)	A	ΔT(℃) without core loss.			
Heat Rated Current(Irms)	Approximately ∆1 ≈40 C	1,Applied the allowed DC current(keep 1 min.).			
		2.Temperature measured by digital surface thermometer			
Reliability Test					
		Preconditioning:Run through IR reflow for 2 times.			
		(IPC/JEDECJ-STD-020D Classification Reflow Profiles)			
Life Test		Temperature:125±2℃ (Inductor)			
Life 1691		Applied current:rated current			
		Duration:1000±12hrs			
		Measured at room temperature after placing for 24±2 hrs			
		Preconditioning:Run through IR reflow for 2 times.			
		(IPC/JEDECJ-STD-020D Classification Reflow Rrofiles.			
Load Humidity		Humidity:85±2% R.H,			
Load Harriatty		Temperature:85℃±2℃			
		Duration:1000hrs Min. with 100% rated current			
		Measured at room temperature after placing for 24±2 hrs			
		Preconditioning:Run through IR reflow for 2 times.			
		(IPC/JEDECJ-STD-020D Classification Reflow Rrofiles.			
		1.Baked at 50℃ for 25 hrs,measured at room temperature after			
		Placing for 4 hrs.			
	Appearance : No damage.	2.Raise temperature to 65±2℃ 90-100% RH in 2.5 hrs,and			
Moisture Resistance	Inductance: within±10% of initial value	Keep 3 hours,cool down to 25°C in 2.5hrs			
	Q:Shall not exceed the specification value. RDC:within ±15% of initial value and shall not	3.Raise temperature to 65±2℃ 90-100% RH in 2.5 hrs,and			
	exceed the specification value.	Keep 3 hours,cool down to 25°C in 2.5hrs,keep at 25°C for 2 hrs			
	•	then keep at -10℃ for 3 hrs			
		4.Keep at 25℃ 80-100%RH for 15min and vibrate at the			
		frequency of 10 to 55 Hz to 10 Hz,measure at room temperature			
		affer placing for 1 ~ 2hrs.			
		Preconditioning:Run through IR reflow for 2 times.			
		(IPC/JEDECJ-STD-020D Classification Reflow Rrofiles.			
		Condition for 1 cycle			
Thermal shock		Step1: -40±2°C 30±5min			
		Step2: 25±2°C ≤0.5min			
		Step3: 125±2°C 30±5min			
		Number of cycles:500			
		Measured at room temperature after placing for 24±2 hrs			
		Oscillation Frequency:10 ~ 2K ~ 10Hz for 20 minutes			
Vibration		Equipment: Vibration checker Total Applitude: 4 F2mm 1409/			
Vibration		Total Amplitude:1.52mm±10%			
		Testing Time:12 hours(20 minutes,12 cycles each of			
		3 orientations).			

■ Reliability and Test Condition

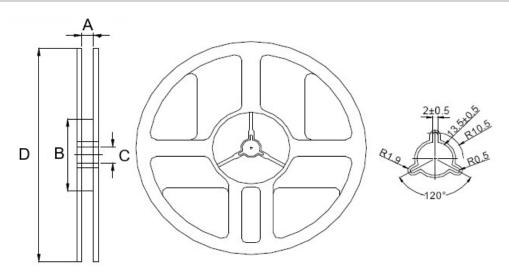
Item	Performance	Test Condition						
			Туре	Peak value (g's)	Normal duration (D)(ms)	Wave form	Velocity change (Vi)ft/sec	
Shock	Appearance: No damage. Inductance: within±10% of initial value		SMD	50	11	Half-sine	11.3	
			Lead	50	11	Half-sine	11.3	
	Q:Shall not exceed the specification value.				tion along	3 perpendio	cular axes.	
Bending	exceed the specification value.	Shall be mounted on a FR4 substrate of the following dimensions: ≥0805: 40×100×1.2mm <0805: 40×100×0.8mm Bending depth: ≥0805 inch(2012mm):1.2mm						
			<0805 inch Iuration of 1		n):0.8mm			
	More than 95% of the terminal electrode	Preheat: 150℃, 60sec.。 Solder: Sn96.5% Ag 3% Cu0.5%						
Soderability	should be covered with solder.	Temperature: 245±5℃。 Flux for lead free: Rosin.9.5%。 Dip time: 4±1sec。						
		Depth: completely cover the termination						
Resistance to Soldering Heat		N	Tempera (°C) 260± (solder te	ature	Time(s)	Temperaturamp/imme and emers 25mm/s:	ersion sion rate	
Terminal Strength	Appearance: No damage. Inductance: within±10% of initial value Q:Shall not exceed the specification value. RDC:within ±15% of initial value and shall not exceed the specification value.	(I V te	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Rrofiles. With the component mounted on a PCB with the device to be tested, apply a force(≥0805 inch(2012mm):1kg,≤0805 (2012mm):0.5kg) to the side of a device being tested. This force shall be applied for 60+1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested. DUT wide thickness shear force				de to be 05 d. force shall mponent	

■ Taping Dimensions(Unit:mm)



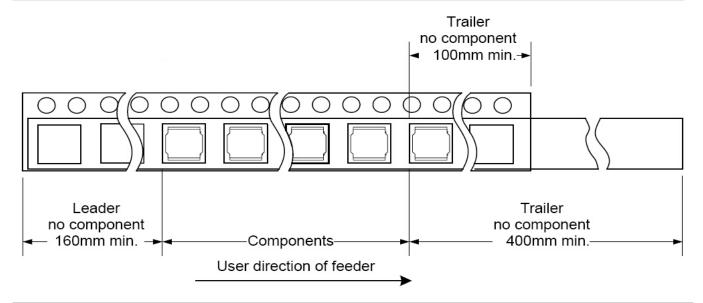
TYPE	w	Α	В	С	D	E	Р	K	Т	MPQ
YIPH323023W	8±0.1	3.25±0.1	3.25±0.1	2.75	3.5±0.1	2.4±0.1	8.0±0.1	5.0	0.30±0.1	1000

■ Reel Dimensions(Unit:mm)

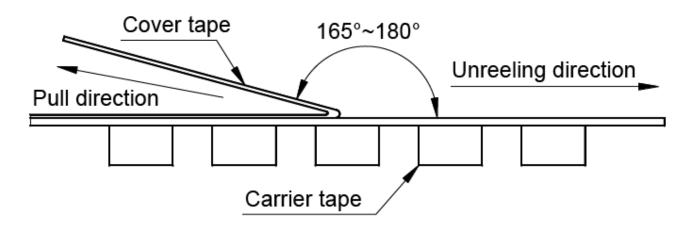


TYPE	Α	В	С	D
YIPH323023W	8.4±1.0	50.0±2.0	13.5±0.80	178±2.0

Direction of rolling



Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.