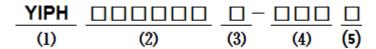
Features

- 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

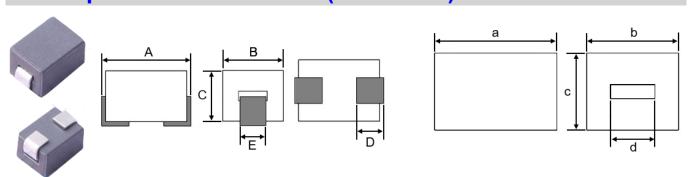
(2): Dimensions

(3): Material Code

(4): Impedance

(5): Taping and Reel

Shapes and Dimensions (Unit: mm)

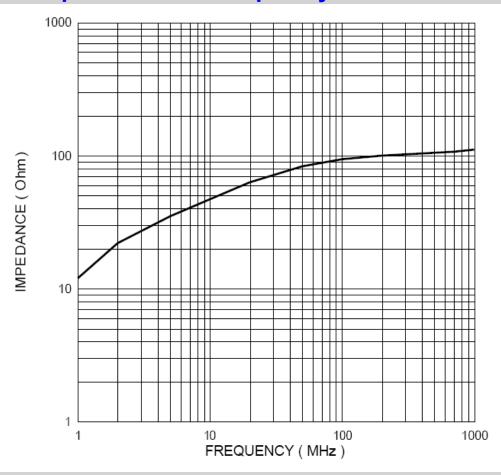


	F	Product Siz	е	Core Size				
Α	В	С	D	E	а	b	С	d
9.00±0.40	3.10±0.15	2.80±0.25	1.50±0.50	1.25±0.20	8.50±0.25	3.10±0.15	2.50±0.15	1.50±0.15

■ Electrical requirements

Part Number	Electric	cal Requirements 1	Electric	al Requirements 1	DCR Max.	Rated Current	
Part Number	Impedance (Ω)	Test Frequency (MHz)	Impedance (Ω)	Test Frequency (MHz)	(mΩ)	∆T=40℃ Typ.	Test Frequency (MHz)
YIPH853225W-750T	45 Min	25	75 Min	100	1.0	13.0	1.0

■ Typical Impedance v.s. Frequency Curve



■ Material List

No.	Description	Specification	
а	Core	Ferrite Core	
b	Wire	Electroplated nickel-tin flat copper wire W X T=1.25 X 0.20 m/m	a b



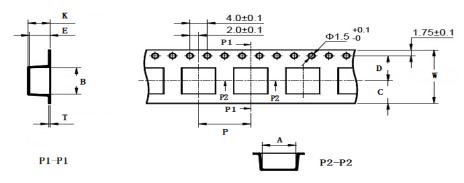
■ Reliability and Test Condition

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 Coment/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 Q:Shall not exceed the specification value. RDC:within ±15% of initial value and shall not exceed the specification value.	Keep 3 hours,cool down to 25℃ in 2.5hrs			
		3.Raise temperature to 65±2℃ 90-100% RH in 2.5 hrs,and			
		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

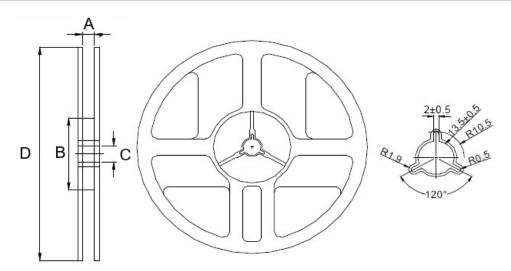
Item	Performance	Test Condition						
			Туре	Peak value (g's)	Normal duration (D)(ms)	Wave form	Velocity change (Vi)ft/sec	
Shock			SMD	50	11	Half-sine	11.3	
	Appearance: No damage. Inductance: within±10% of initial value		Lead	50	11	Half-sine	11.3	
	Q:Shall not exceed the specification value. RDC:within ±15% of initial value and shall not	s	hocks in ea	ach direc	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						dimensions:
			<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	e applied g eing tested	a force(:0.5kg) thall be a radually	020D Class mounted of >0805 inco the side of pplied for 6 as not to a	sification Ron a PCB who had perfectly with the second sec	Reflow Rrofi vith the devi a):1kg, ≤ 080 being teste ds.Also the ck to the col	ice to be 05 d. force shall

■ Taping Dimensions(Unit:mm)



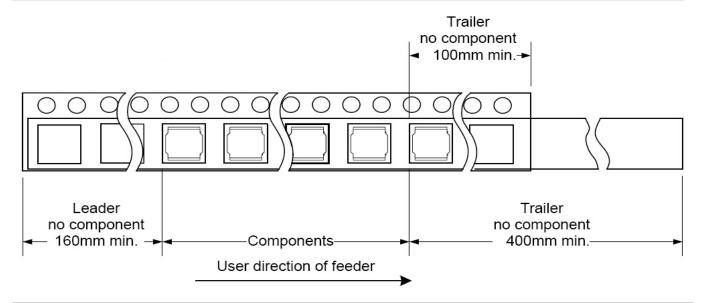
TYPE	W	Α	В	С	D	E	Р	K	Т	MPQ
YIPH853225W	16.0±0.3	3.25±0.1	9.25±0.1	5.0	5.0±0.1	3.5±0.1	8.0±0.1	5.0	0.30±0.1	500

■ Reel Dimensions(Unit:mm)

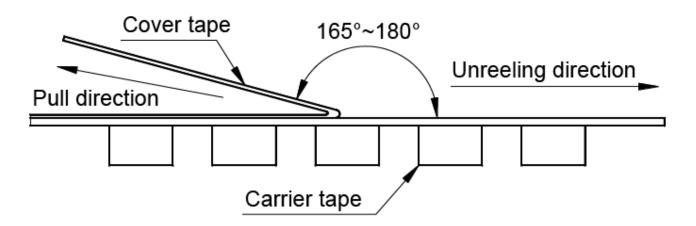


TYPE	Α	В	С	D
YIPH853225W	16.7±0.5	60.0±2.0	13.5±0.50	178±2.0

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.