

■ Features

- Susing flat wire,and SMD type.
- Low radiation noise by magnetically shielded construction.
- High current,Low resistance.
- Resistance to soldering heat Max three 40 second reflows at +260°C,parts cooled to room temperature between cycles.
- Moisture Sensitivity Level(MSL) 1(unlimited floor life at <30°C/85% relative humidity).
- Operating temperature range:-40°C ~ +125°C(Including self-temperature rise).

■ Applications

- High efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.

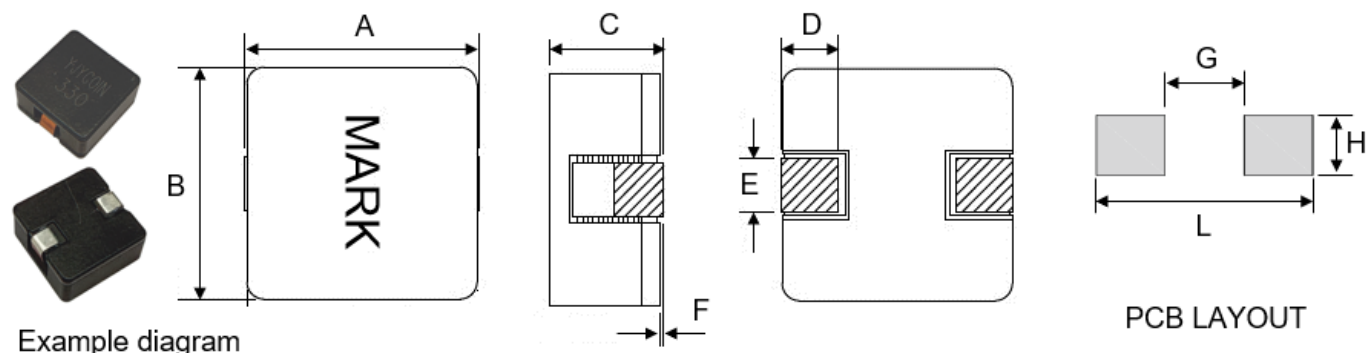
■ Product Identification

YSFB -

(1) (2) (3) (4) (5)

- (1) : Type
- (2) : Dimensions
- (3) : Inductance value
- (4) : Inductance Tolerance: M=±20%,K=±10%
- (5) : Internal code

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C	D	E	F	G Ref	H Ref	L Ref
YSFB1890A	18.3±1.0	18.2±0.5	8.9±0.3	5.0±1.0	※	0~0.3	7.3	6.0	19.3

※ 5.6μH ~33μH = 3.2±1.0 & 47μH = 2.4±1.0

■ Electrical requirements

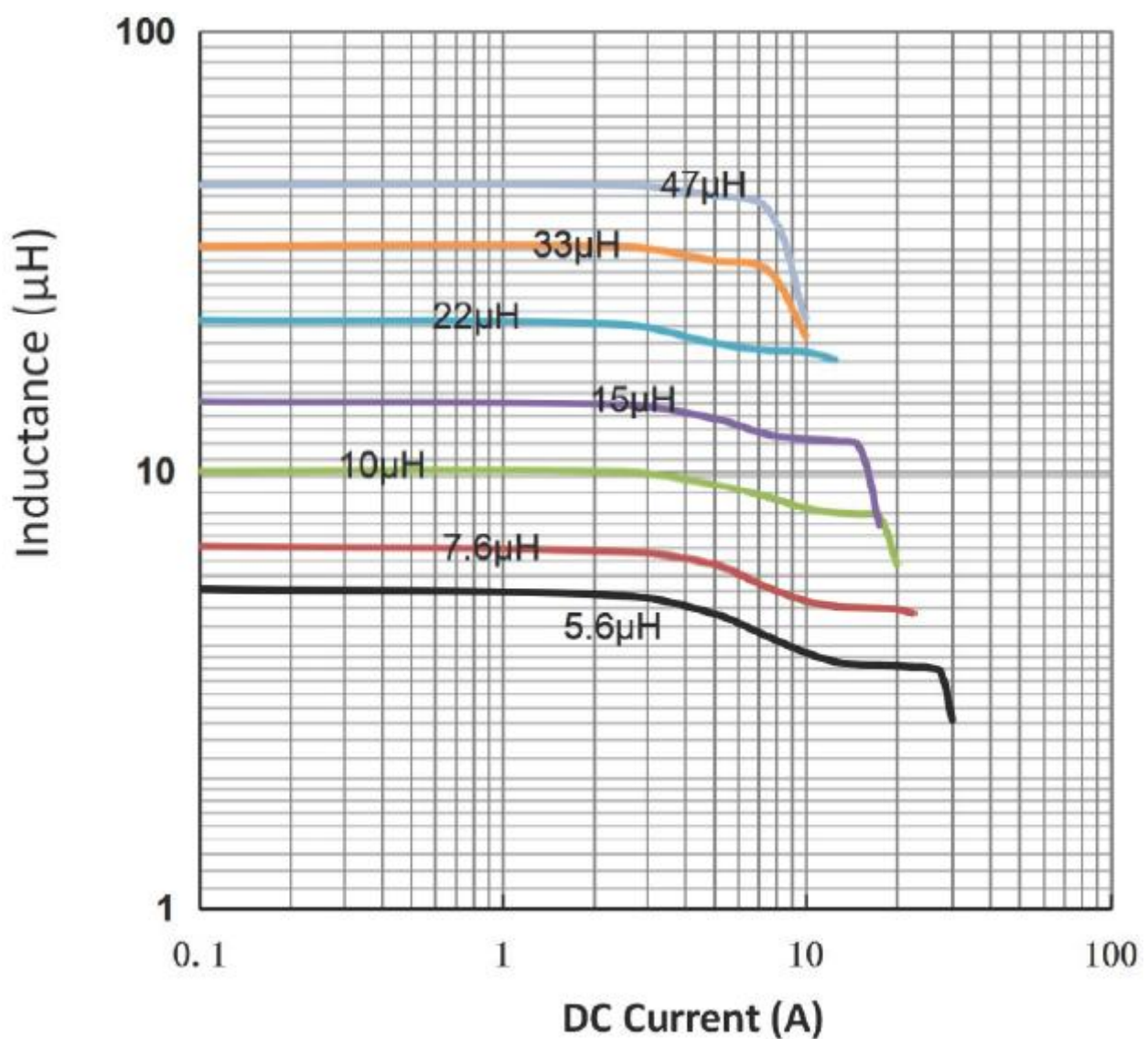
Part Number	Inductance (μ H) (@100KHz)	DCR (m Ω)		SRF Typ. (MHz)	I Sat Typ. (A)			I rms Typ.(A)	
		Typ.	Max.		10% drop	20% drop	30% drop	20°C rise	40°C rise
YSFB1890A-5R6M	5.6 $\pm$ 20%	2.82	3.10	26	4.5	7.1	28.5	16.9	22.6
YSFB1890A-7R6M	7.6 $\pm$ 20%	3.75	4.13	20	5.0	8.5	22.8	14.2	17.8
YSFB1890A-100M	10 $\pm$ 20%	6.90	7.60	16	6.0	13.0	19.2	11.0	14.6
YSFB1890A-150M	15 $\pm$ 20%	9.00	9.90	14	5.1	14.6	15.4	9.2	12.5
YSFB1890A-220M	22 $\pm$ 20%	14.60	16.00	10.5	4.5	12.1	12.5	7.0	11.0
YSFB1890A-330M	33 $\pm$ 20%	21.70	23.87	9.5	6.0	9.1	9.5	5.2	7.1
YSFB1890A-470M	47 $\pm$ 20%	33.50	36.80	7.5	6.9	7.6	7.8	4.2	6.1

- ※ All test data is based on 25°C ambient.
- ※ DC current at 25°C that causes the specified inductance drop from its value without current.
- ※ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

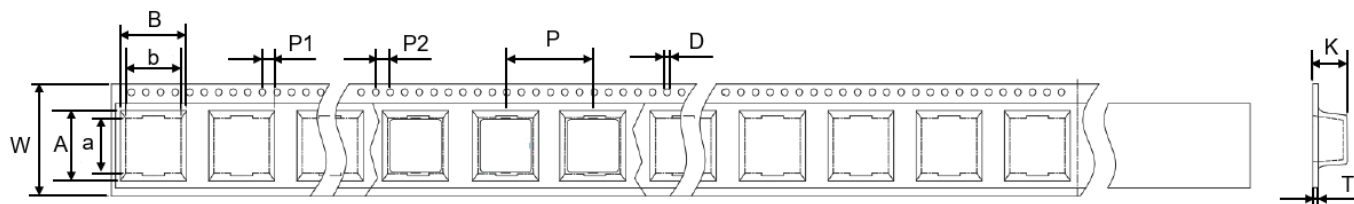
■ Electrical Schematics



■ Electrical Characteristic Curve

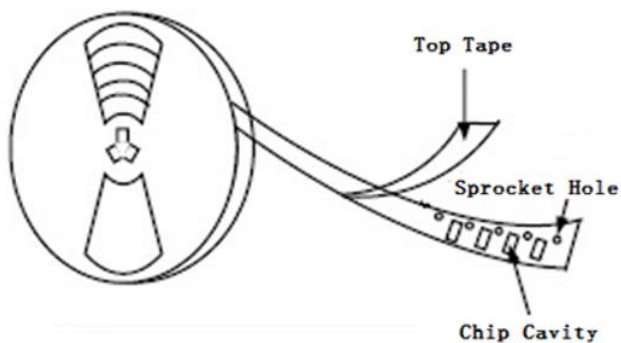
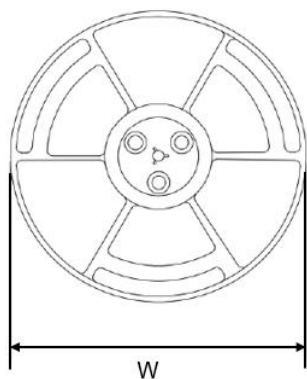


■ Taping Dimensions(Unit:mm)



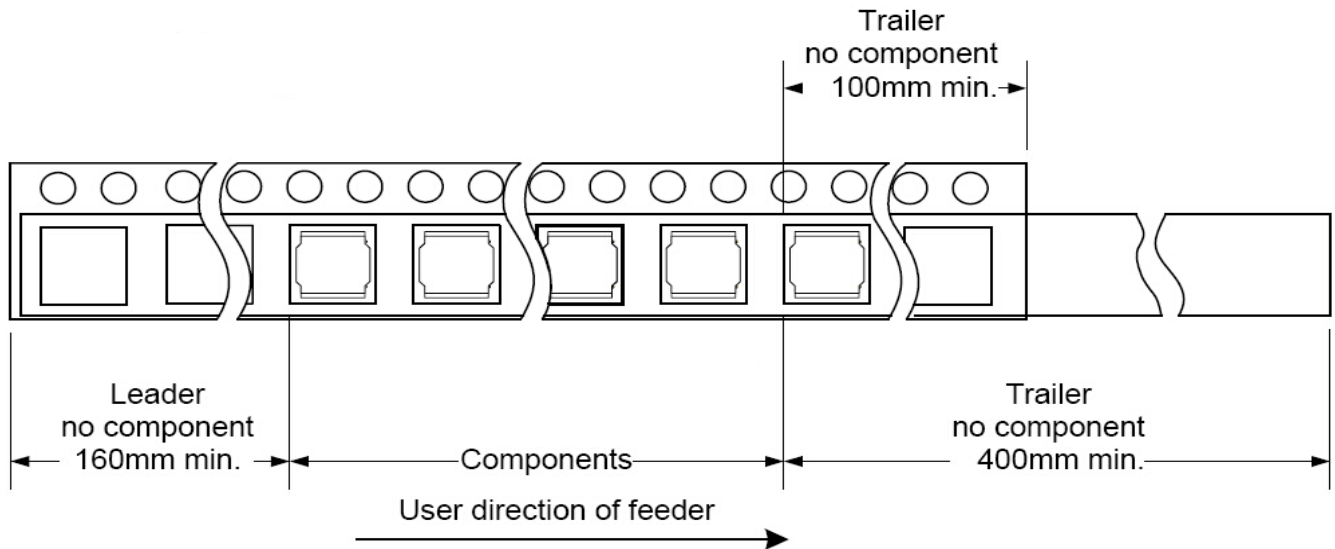
W	A	a	B	b	P	P1	P2	D	K	T
32.0	21.0	20.0	21.0	20.0	32.0	2.0	4.0	1.5	9.5	0.5

■ Reel Dimensions(Unit:mm)

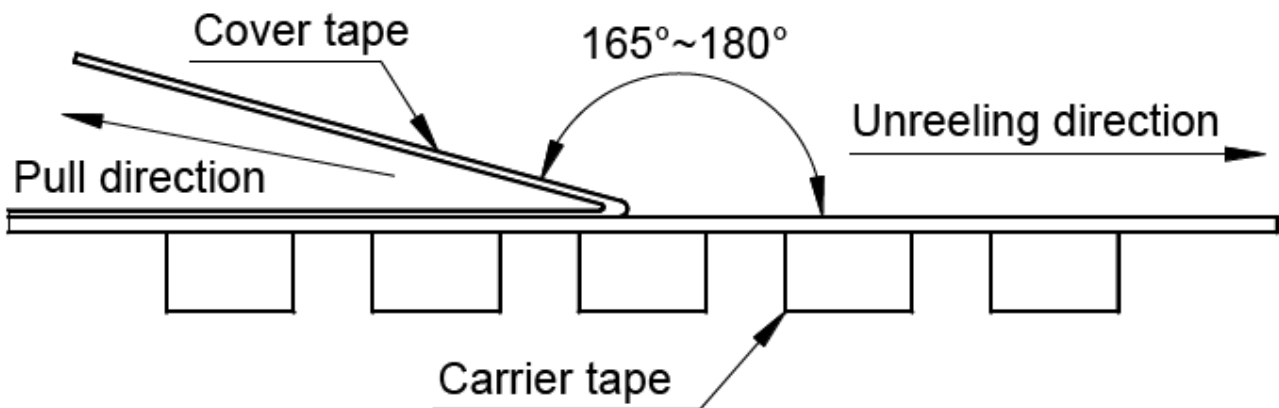


TYPE	W	W1 Max.	W2	MPQ
YSFB1890A	330±1.5	40.4	32.4±0.2	150 PCS/Reel

■ Direction of rolling



■ Cover tape peel off condition



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

Reference peel speed 300 ± 10 mm/min.