

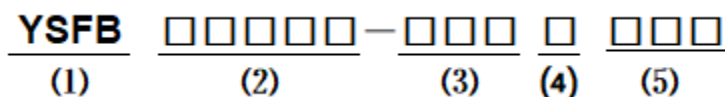
■ Features

- Using 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

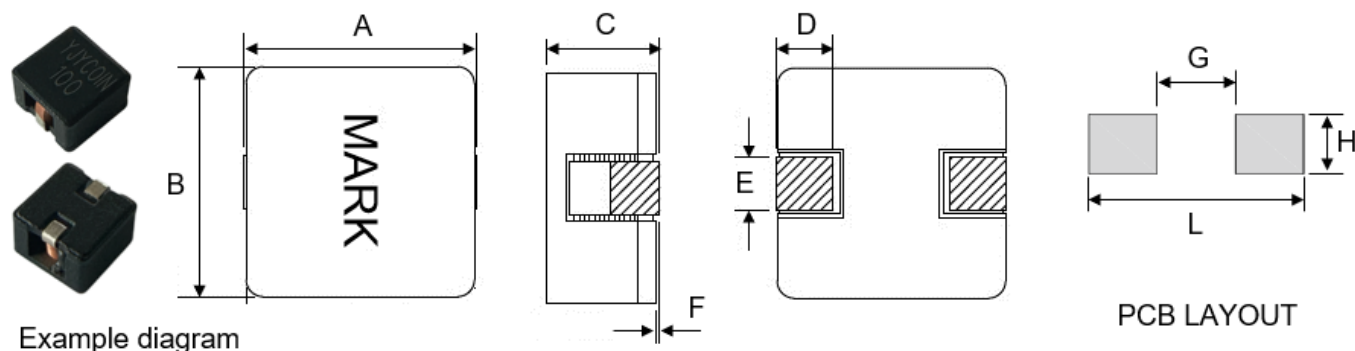
- High efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.

■ Product Identification



- (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
YSFB1350B	13.0±1.0	12.8±0.5	4.7±0.3	3.0±1.0	2.5±0.5	0~0.3	6.3	5.0	14.0

■ 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
YSFB1350B-R19M	0.19 $\pm$ 20%	0.50	0.58	225	28.0	47.0	60.0	17.6	26.2
YSFB1350B-R47M	0.47 $\pm$ 20%	0.90	1.04	95	24.0	39.2	50.0	16.0	23.0
YSFB1350B-R90M	0.90 $\pm$ 20%	1.60	1.84	72	11.0	18.3	28.0	13.5	20.6
YSFB1350B-1R4M	1.4 $\pm$ 20%	2.40	2.76	60	10.0	17.8	26.0	13.1	18.6
YSFB1350B-2R3M	2.3 $\pm$ 20%	3.70	4.25	40	7.0	12.5	17.0	11.0	15.6
YSFB1350B-3R2M	3.2 $\pm$ 20%	5.30	6.10	34	6.0	9.7	15.0	10.0	14.1
YSFB1350B-4R8M	4.8 $\pm$ 20%	10.50	12.08	28	5.5	9.0	13.0	7.1	9.5
YSFB1350B-6R0M	6.0 $\pm$ 20%	11.60	14.38	22	5.0	8.3	11.5	6.8	9.1
YSFB1350B-8R2M	8.2 $\pm$ 20%	13.50	15.64	20	5.0	8.1	11.0	6.3	8.2
YSFB1350B-100M	10 $\pm$ 20%	14.10	16.22	18	5.0	6.3	10.0	6.1	8.0

※ All test data is based on 25°C ambient.

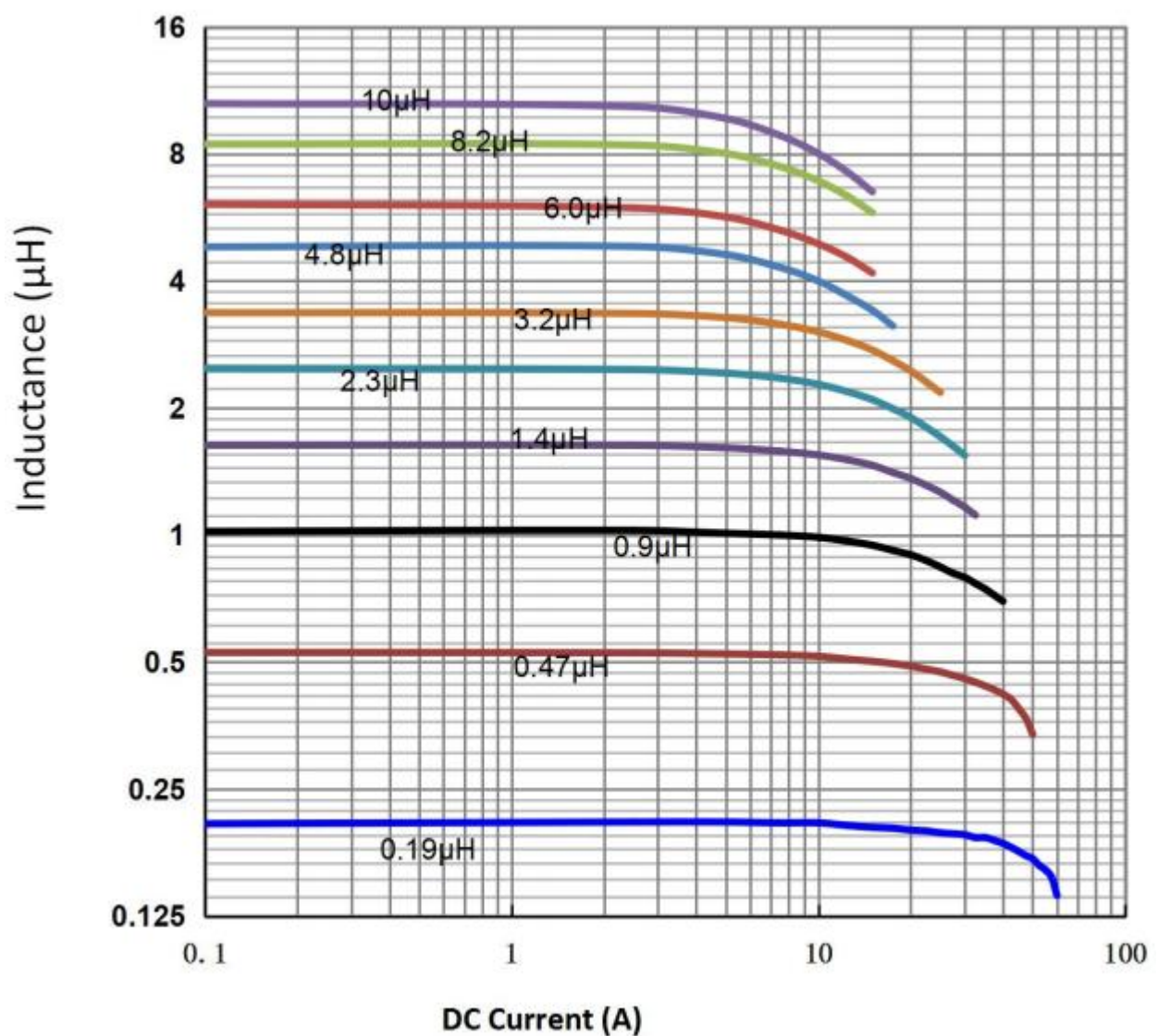
※ DC current at 25°C that causes the specified inductance drop from its value without current.

※ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

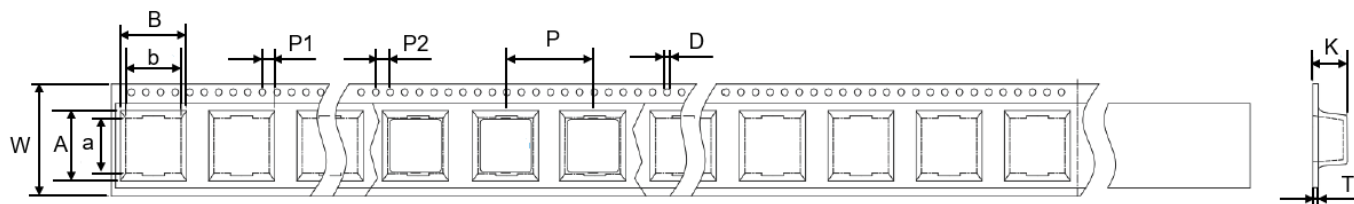
■ Electrical Schematics



■ Electrical Characteristic Curve

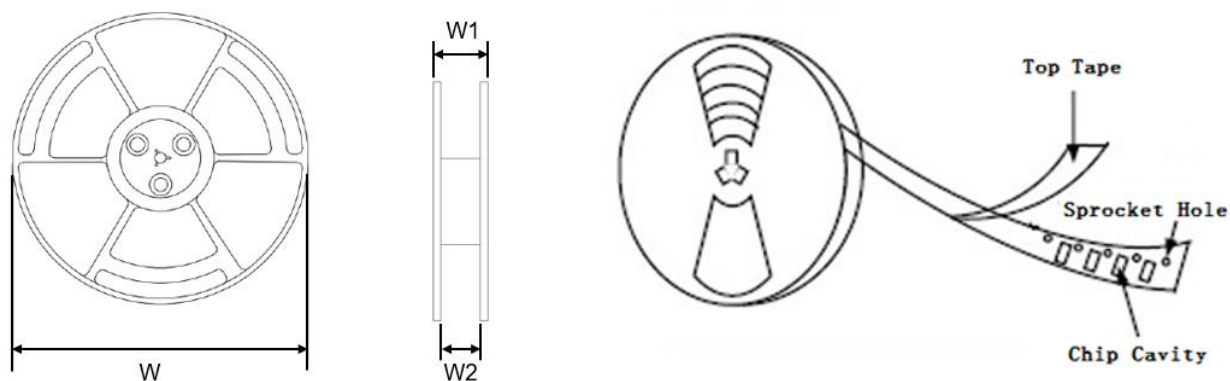


Taping Dimensions(Unit:mm)



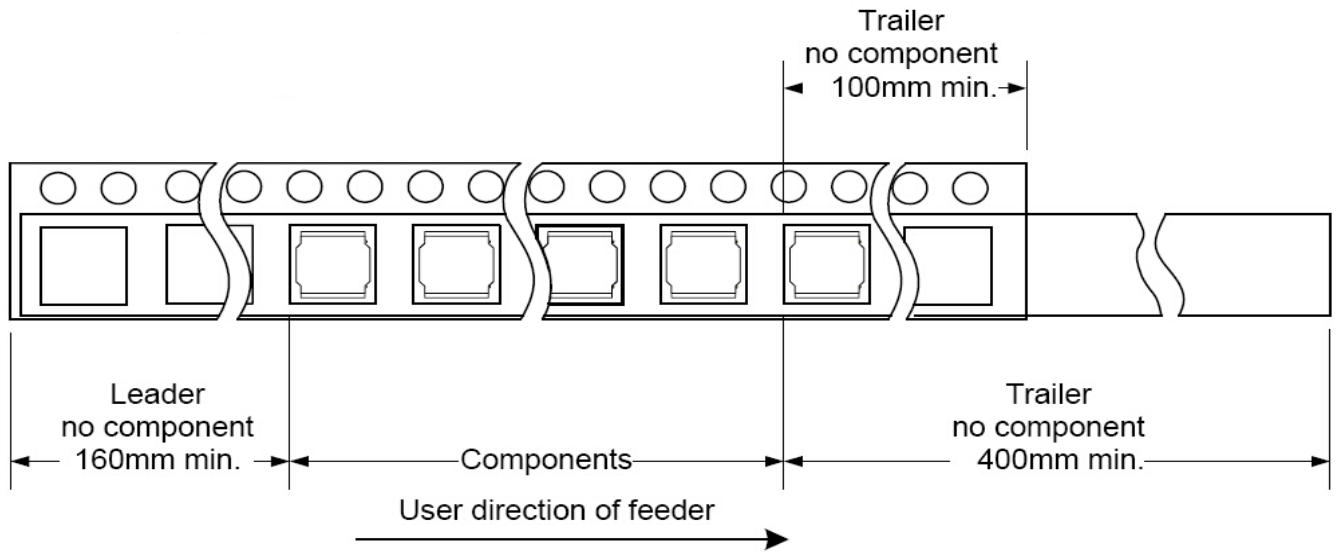
W	A	a	B	b	P	P1	P2	D	K	T
24.0	15.3	14.5	14.3	13.5	16.0	2.0	4.0	1.5	5.6	0.5

Reel Dimensions(Unit:mm)

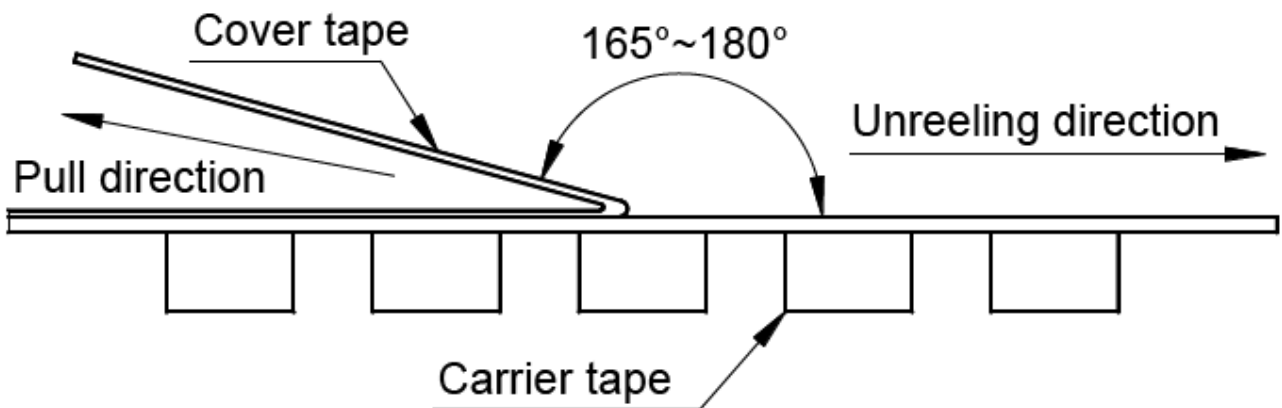


TYPE	W	W1 Max.	W2	MPQ
YSFB1350B	330±1.5	30.4	24.4±0.2	500 PCS/Reel

■ 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.