

■ 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

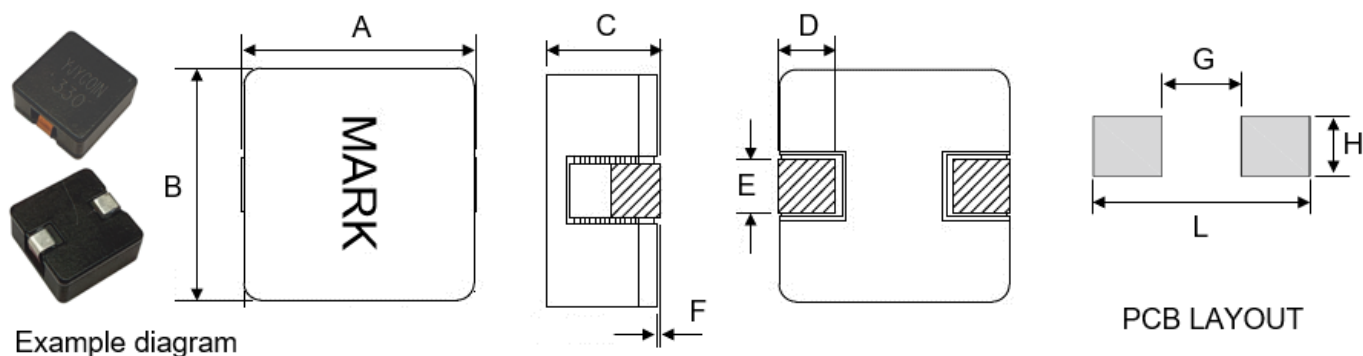
- High efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.

■ Product Identification

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
YSFB1365B	13.0±0.5	12.8±0.5	6.2±0.3	3.0±1.0	2.5±0.5	0~0.3	6.0	5.0	15.0

■ 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
YSFB1365B-R20M	0.20 $\pm$ 20%	0.35	0.39	230	45.0	52.0	65.0	18.1	27.5
YSFB1365B-R47M	0.47 $\pm$ 20%	0.67	0.74	100	25.0	42.0	50.0	17.9	26.8
YSFB1365B-R82M	0.82 $\pm$ 20%	0.90	0.99	72	28.0	40.0	46.0	17.0	25.0
YSFB1365B-1R3M	1.3 $\pm$ 20%	1.80	1.98	59	25.0	39.0	43.0	14.8	21.6
YSFB1365B-2R0M	2.0 $\pm$ 20%	2.60	2.86	45	24.0	35.0	42.0	13.3	19.2
YSFB1365B-2R8M	2.8 $\pm$ 20%	3.30	3.63	35	15.0	22.0	29.5	10.7	15.3
YSFB1365B-3R7M	3.7 $\pm$ 20%	4.90	5.40	26	13.0	26.0	32.5	10.0	13.7
YSFB1365B-4R7M	4.7 $\pm$ 20%	7.00	7.70	30	6.0	10.1	15.0	8.2	11.0
YSFB1365B-6R0M	6.0 $\pm$ 20%	8.40	9.24	22	6.0	9.2	14.0	8.0	10.6
YSFB1365B-7R3M	7.3 $\pm$ 20%	5.90	6.50	28	5.5	8.5	12.0	8.3	11.2
YSFB1365B-9R2M	9.2 $\pm$ 20%	7.80	8.60	26	5.0	7.8	10.8	8.0	10.4
YSFB1365B-110M	11 $\pm$ 20%	9.10	10.00	12	4.0	7.0	9.6	7.2	10.0
YSFB1365B-130M	13 $\pm$ 20%	11.20	12.30	14	4.5	6.8	9.2	6.5	8.8
YSFB1365B-150M	15 $\pm$ 20%	14.80	16.28	15	5.6	8.0	10.6	6.2	8.4
YSFB1365B-180M	18 $\pm$ 20%	22.00	24.20	16	3.8	6.0	8.0	5.0	6.4
YSFB1365B-220M	22 $\pm$ 20%	24.70	27.20	14	3.2	5.5	7.0	4.0	5.4
YSFB1365B-330M	33 $\pm$ 20%	30.50	33.55	11	3.0	4.2	5.5	3.9	5.2

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

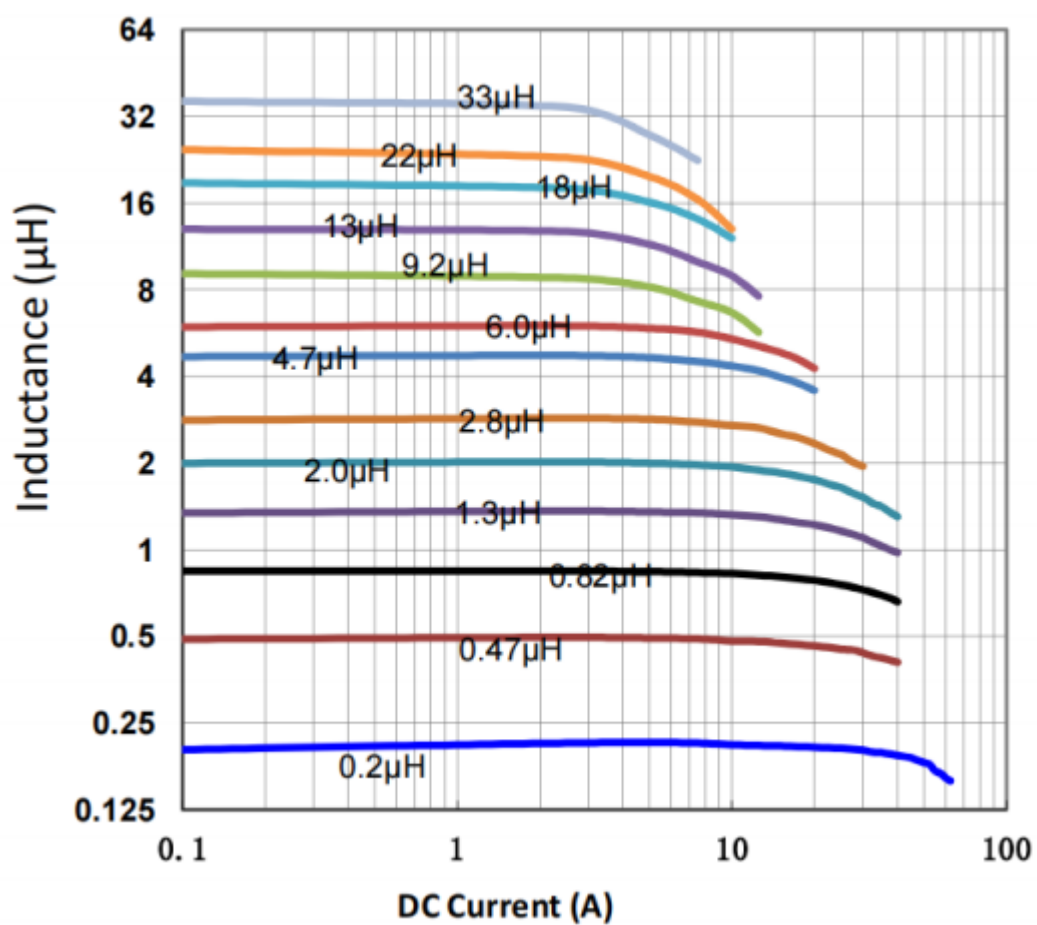
※ DC current at 25°C that causes the specified inductance drop from its value without current.

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

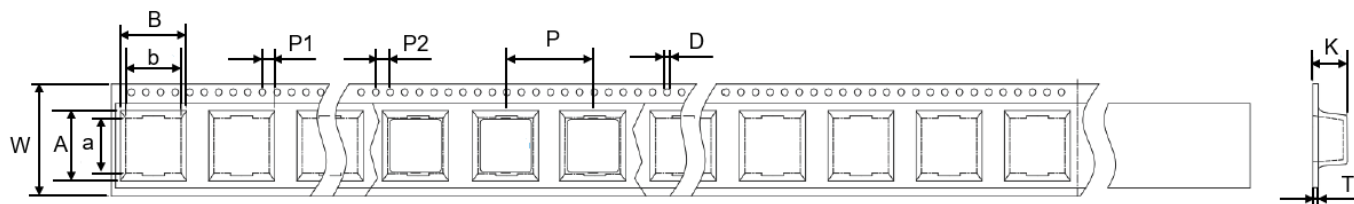
■ Electrical Schematics



■ Electrical Characteristic Curve

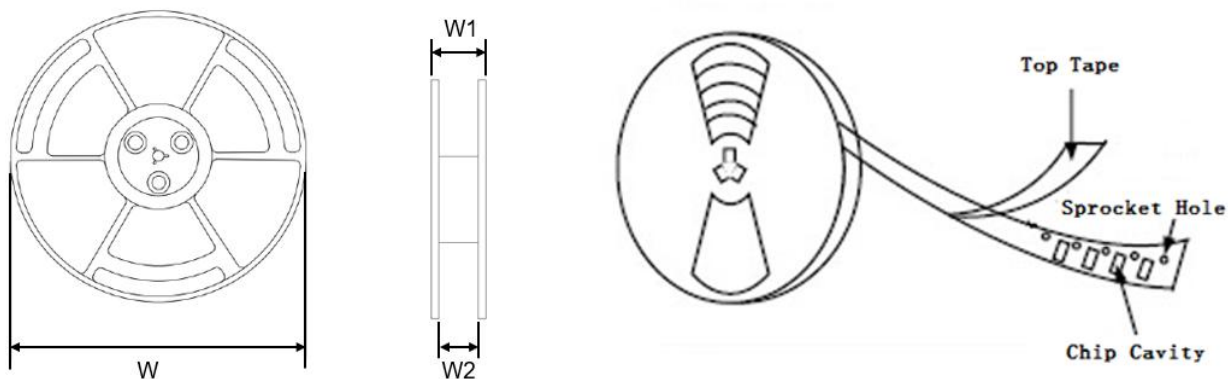


Taping Dimensions(Unit:mm)



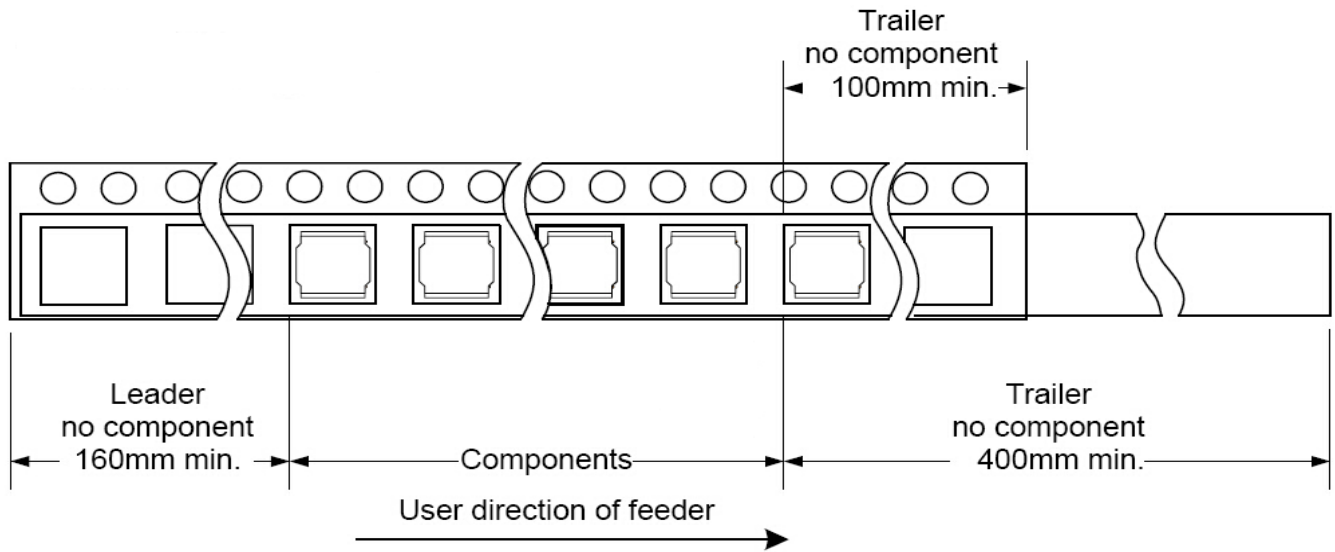
W	A	a	B	b	P	P1	P2	D	K	T
24.0	15.3	14.5	14.3	13.5	16.0	2.0	4.0	1.5	6.5	0.5

Reel Dimensions(Unit:mm)

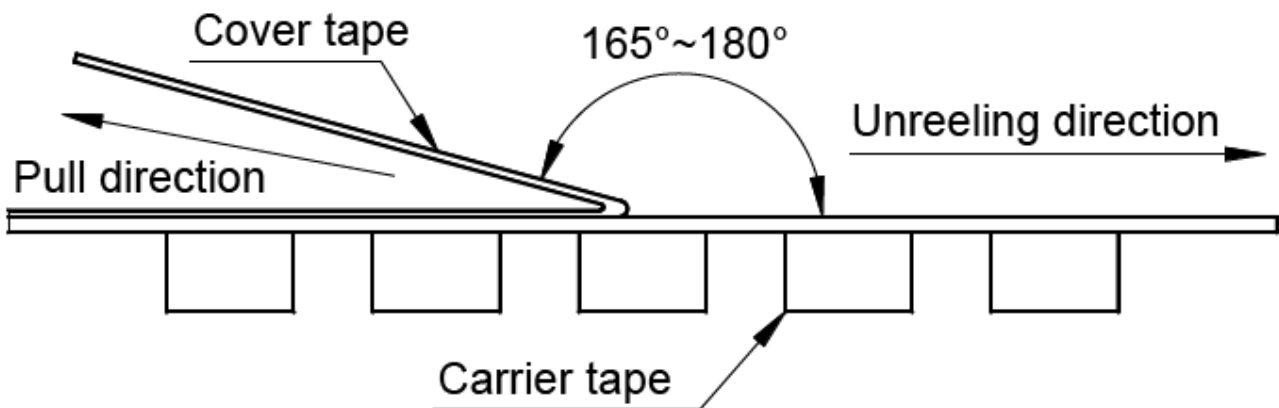


TYPE	W	W1 Max.	W2	MPQ
YSFB1365B	330±1.5	30.4	24.4±0.2	500 PCS/Reel

■ 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.