

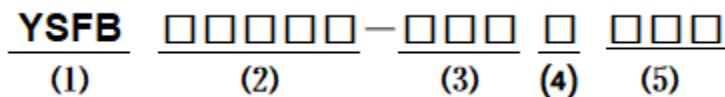
■ Features

- 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

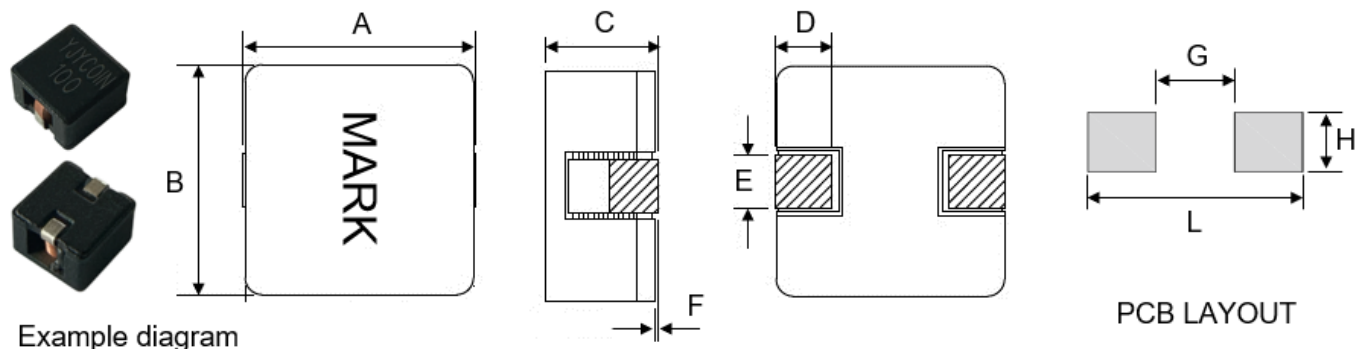
- High efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.

■ Product Identification



- (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
YSFB1050B	10.5±1.0	10.2±0.5	4.7±0.3	3.1±1.0	2.2±0.5	0~0.3	3.8	4.0	11.5

■ 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
YSFB1050B-R16M	0.16 $\pm$ 20%	0.51	0.56	400	24.0	44.0	58.0	16.0	23.0
YSFB1050B-R40M	0.40 $\pm$ 20%	0.67	0.74	160	18.0	32.0	37.0	15.0	21.0
YSFB1050B-R72M	0.72 $\pm$ 20%	1.30	1.43	115	17.0	27.5	35.0	13.5	18.5
YSFB1050B-1R2M	1.2 $\pm$ 20%	1.80	1.98	75	16.0	24.0	31.0	13.0	18.2
YSFB1050B-1R8M	1.8 $\pm$ 20%	3.50	3.83	70	13.0	19.0	25.0	11.0	15.2
YSFB1050B-2R4M	2.4 $\pm$ 20%	4.75	5.23	67	12.0	17.6	22.8	8.0	12.2
YSFB1050B-3R3M	3.3 $\pm$ 20%	5.90	6.50	54	9.2	14.5	19.5	7.8	11.4
YSFB1050B-4R2M	4.2 $\pm$ 20%	7.10	7.80	33	9.0	13.0	17.0	7.6	10.6
YSFB1050B-5R5M	5.5 $\pm$ 20%	10.30	11.33	30	7.0	10.0	14.0	7.0	9.3
YSFB1050B-6R5M	6.5 $\pm$ 20%	12.50	13.75	27	6.2	9.8	12.0	5.5	7.3
YSFB1050B-7R8M	7.8 $\pm$ 20%	13.60	15.00	23	5.5	8.6	11.0	5.1	7.1
YSFB1050B-100M	10 $\pm$ 20%	16.30	18.00	21	5.0	7.8	10.5	4.8	6.5
YSFB1050B-160M	16 $\pm$ 20%	34.50	38.00	18.00	4.0	6.2	8.5	3.3	4.4

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

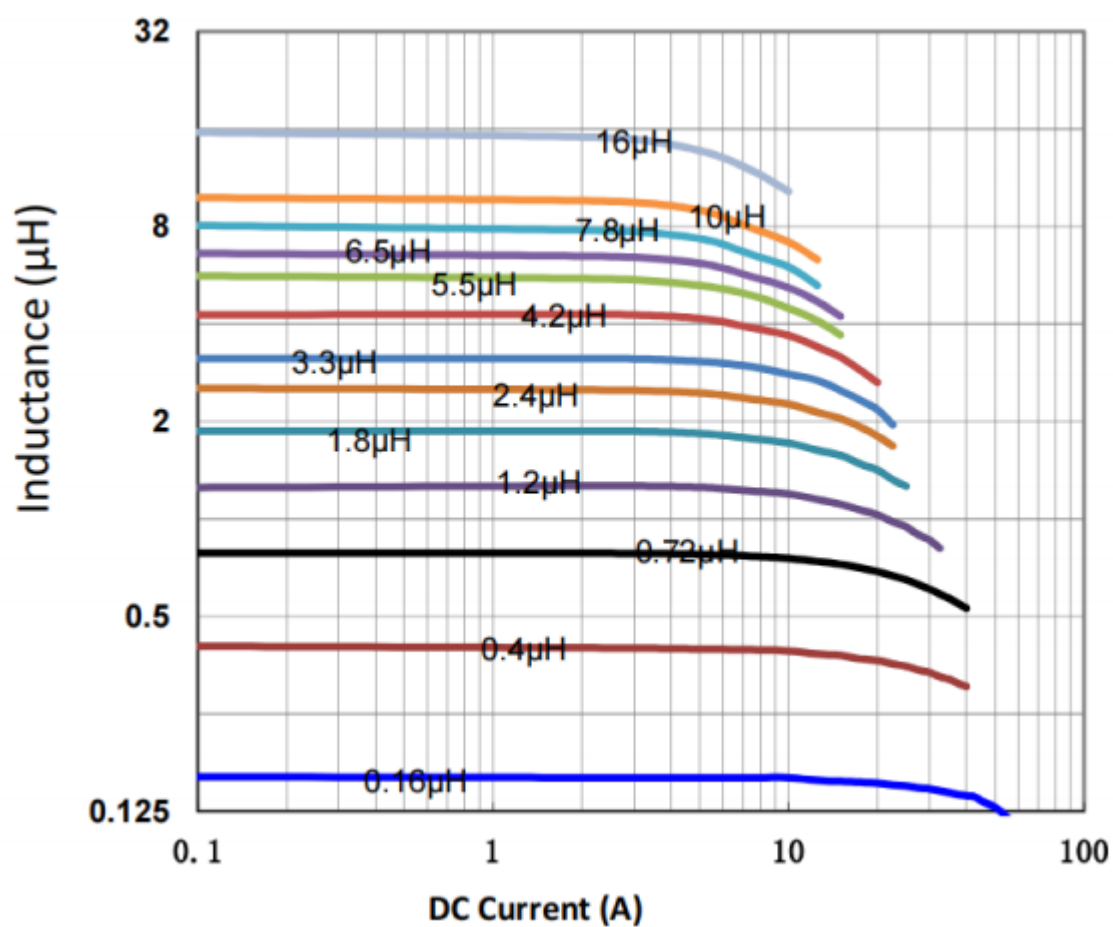
※ DC current at 25°C that causes the specified inductance drop from its value without current.

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

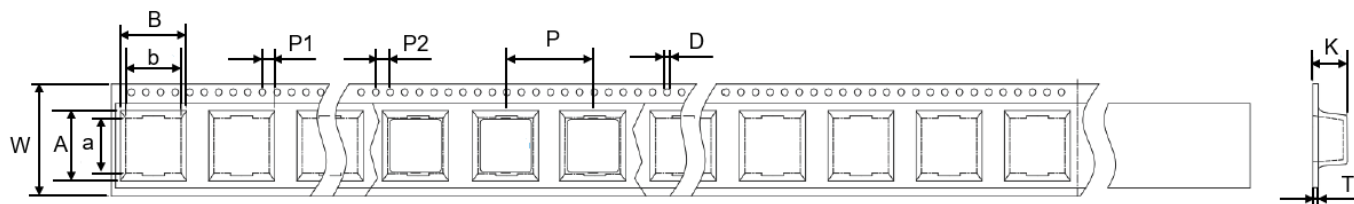
■ Electrical Schematics



■ Electrical Characteristic Curve

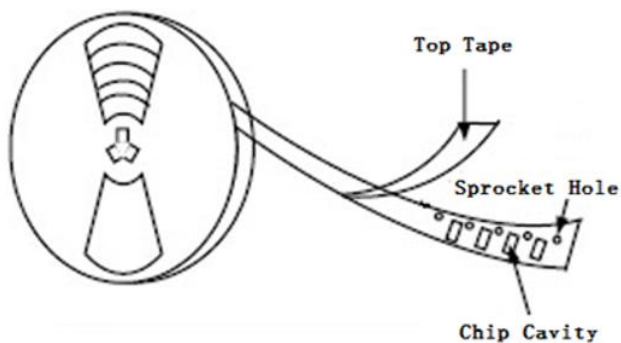
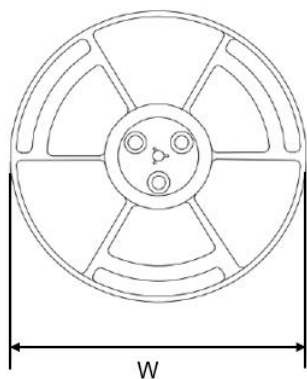


■ Taping Dimensions(Unit:mm)



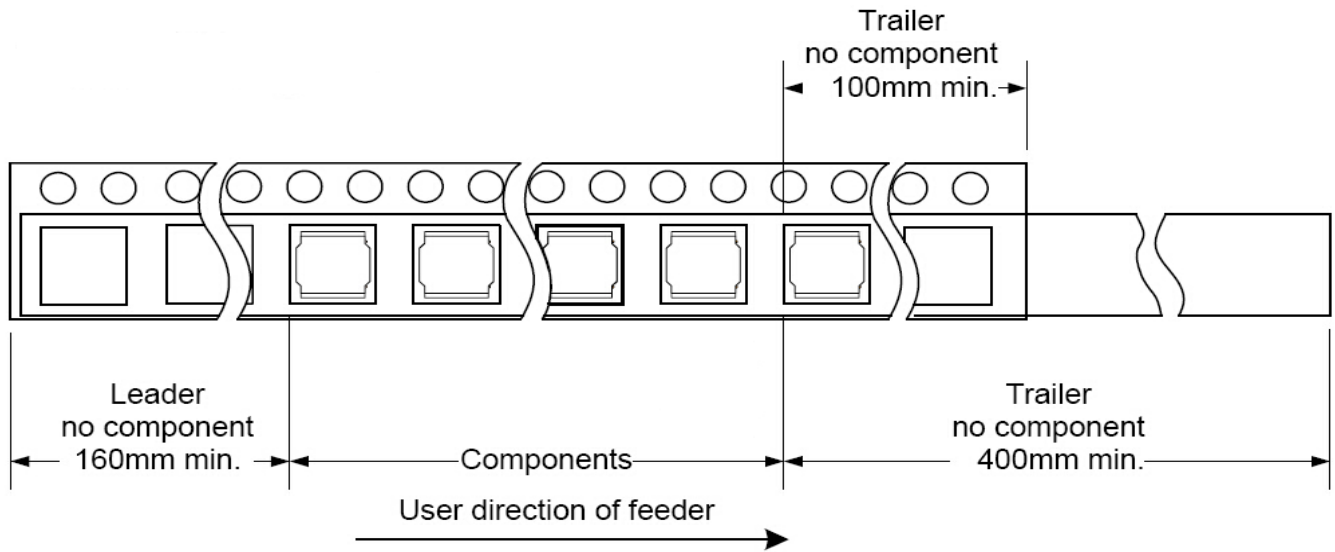
W	A	a	B	b	P	P1	P2	D	K	T
24.0	12.0	11.6	11.5	10.6	13.5	2.0	4.0	1.5	5.3	0.3

■ Reel Dimensions(Unit:mm)

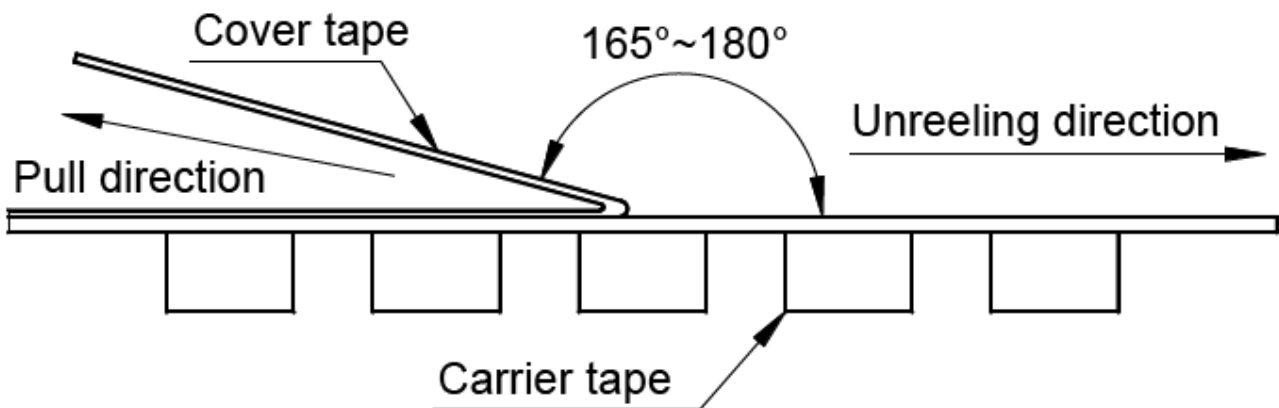


TYPE	W	W1 Max.	W2	MPQ
YSFB1050B	330±1.5	28.4	24.4±0.2	700 PCS/Reel

■ 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.