

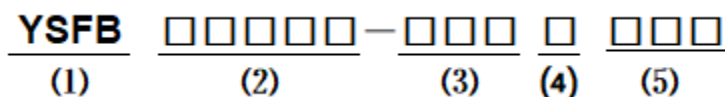
■ Features

- 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

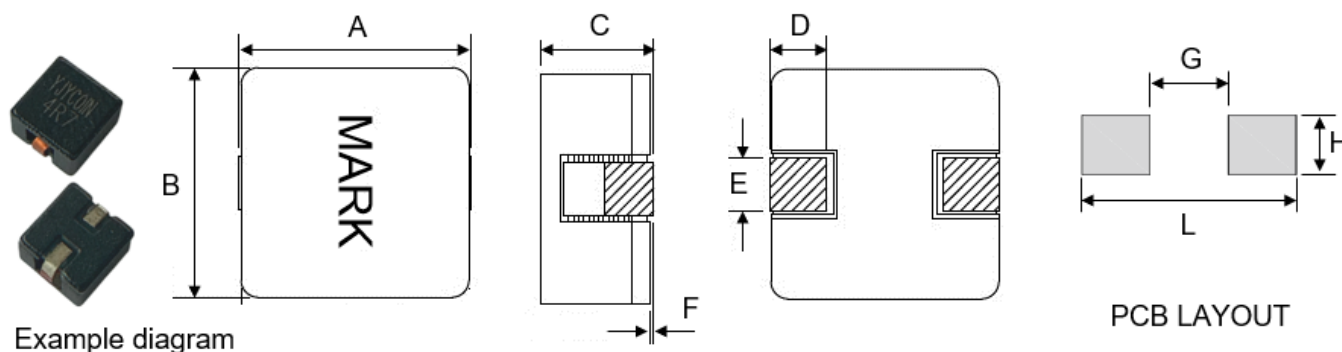
- High efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.

■ 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
YSFB0540B	5.6±0.3	5.6±0.3	4.0±0.3	1.2±0.3	1.0±0.3	0~0.3	2.2	1.6	6.0

■ 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
YSFB0540B-R22M	0.22 $\pm$ 20%	1.25	1.38	507	9.0	15.0	23.5	22.0	30.0
YSFB0540B-R33M	0.33 $\pm$ 20%	1.75	1.95	402	11.0	16.5	22.5	19.0	25.5
YSFB0540B-R47M	0.47 $\pm$ 20%	2.75	3.10	280	10.0	15.0	20.0	16.0	19.5
YSFB0540B-R68M	0.68 $\pm$ 20%	4.00	4.40	253	8.0	12.0	16.5	14.0	16.0
YSFB0540B-1R0M	1.0 $\pm$ 20%	4.75	5.30	158	7.5	11.0	14.5	12.0	14.8
YSFB0540B-1R5M	1.5 $\pm$ 20%	8.15	9.00	110	4.5	7.0	9.2	8.0	11.0
YSFB0540B-2R2M	2.2 $\pm$ 20%	11.30	12.50	108	3.0	4.6	6.2	6.0	9.2
YSFB0540B-3R3M	3.3 $\pm$ 20%	18.50	20.50	66	3.2	4.8	6.5	4.5	7.1
YSFB0540B-4R7M	4.7 $\pm$ 20%	24.50	27.00	57	2.0	3.0	4.1	3.8	6.0
YSFB0540B-5R6M	5.6 $\pm$ 20%	28.50	31.50	48	2.4	3.5	4.8	3.2	5.5

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

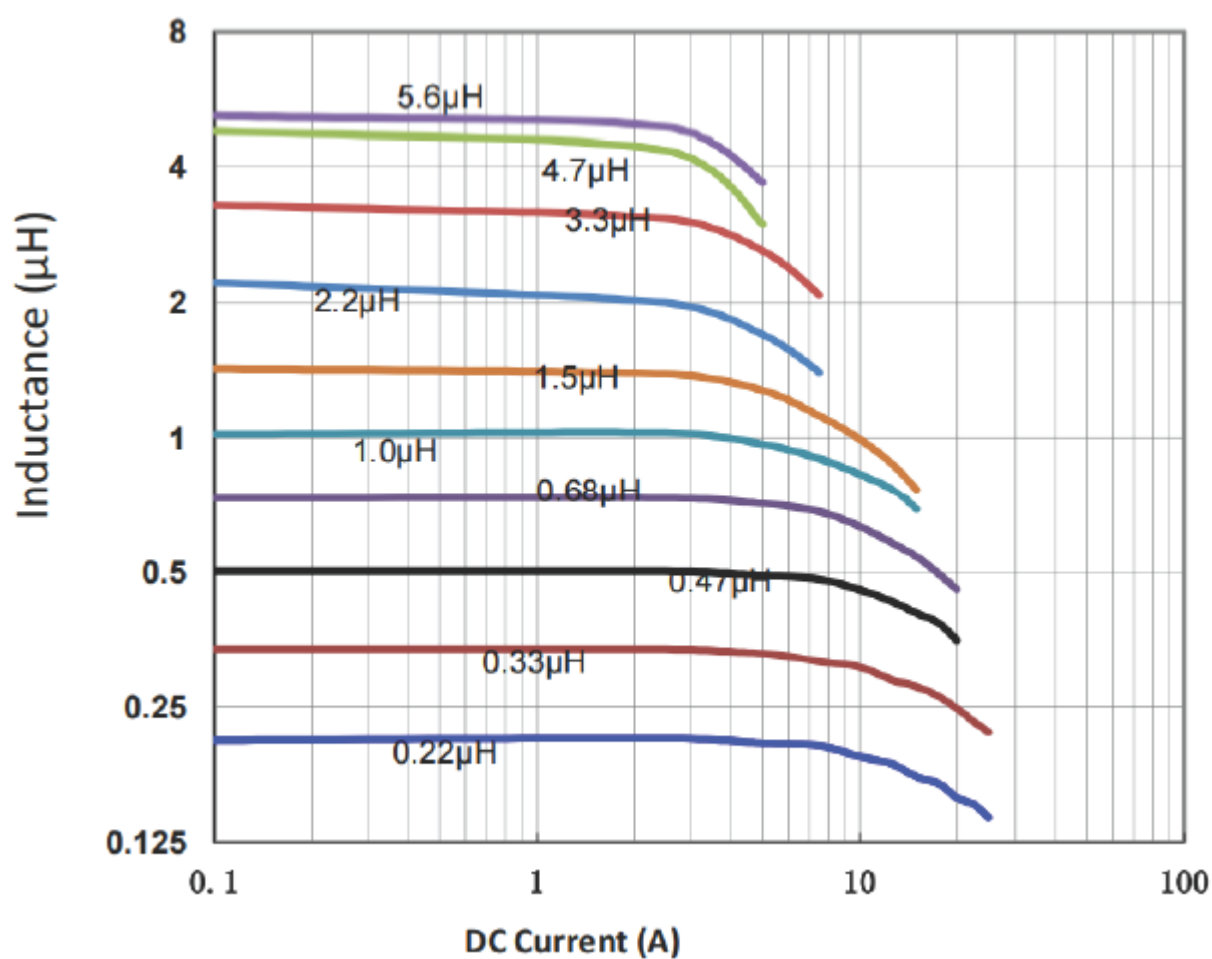
※ DC current at 25°C that causes the specified inductance drop from its value without current.

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

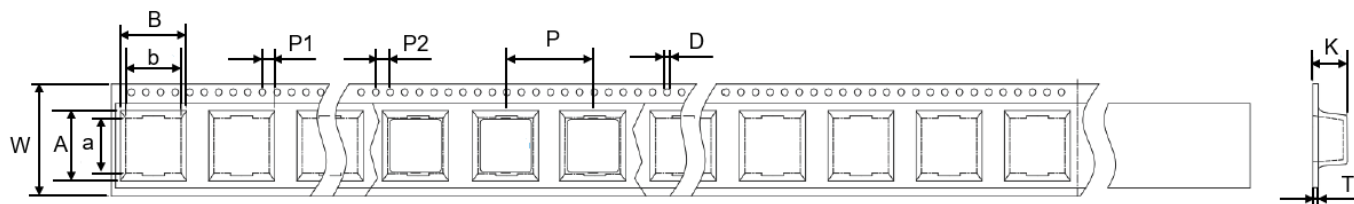
■ Electrical Schematics



■ Electrical Characteristic Curve

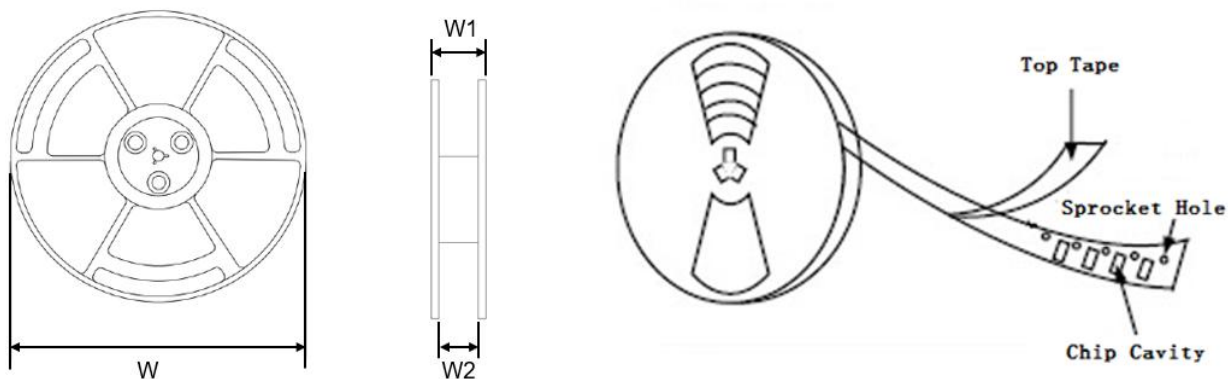


Taping Dimensions(Unit:mm)



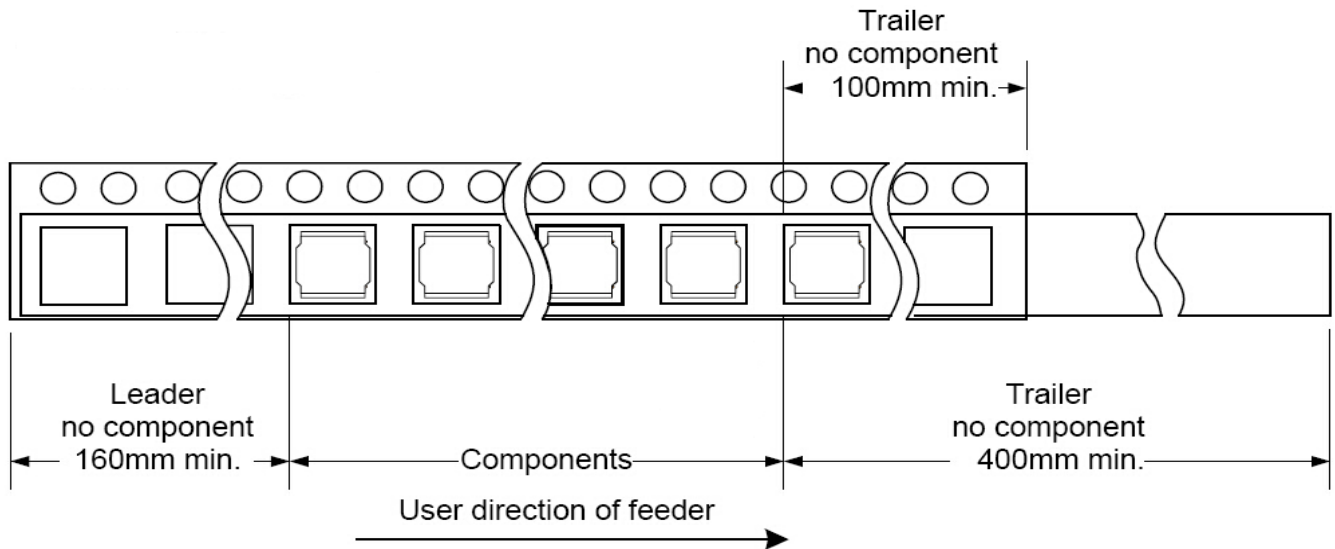
W	A	a	B	b	P	P1	P2	D	K	T
16.0	6.5	6.0min.	6.5	6.0min.	8.0	2.0	4.0	1.5	4.5	0.35

Reel Dimensions(Unit:mm)

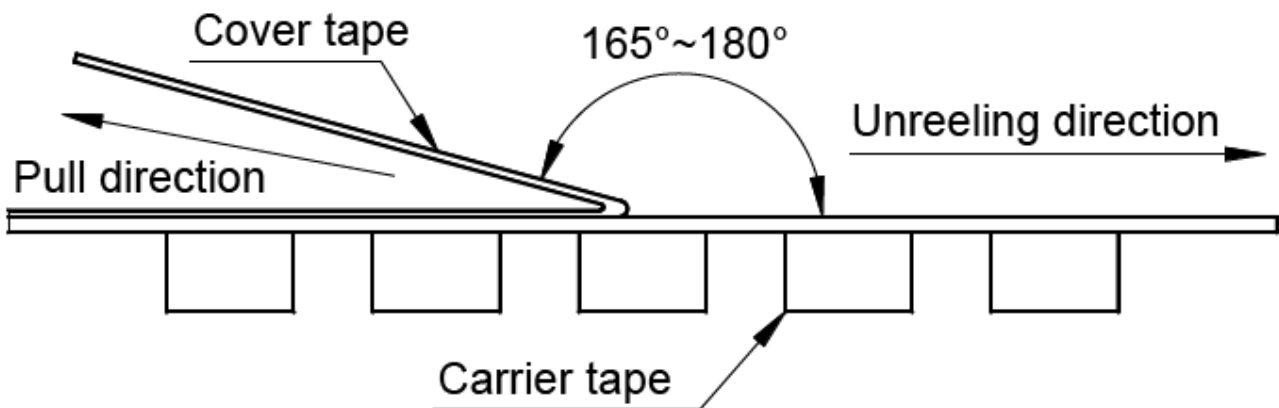


TYPE	W	W1 Max.	W2	MPQ
YSFB0540B	330±1.5	22.4	16.4±0.2	1500 PCS/Reel

■ 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.