

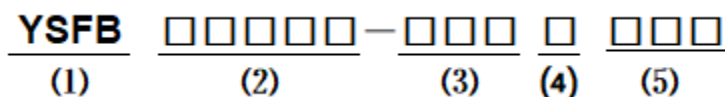
■ Features

- 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

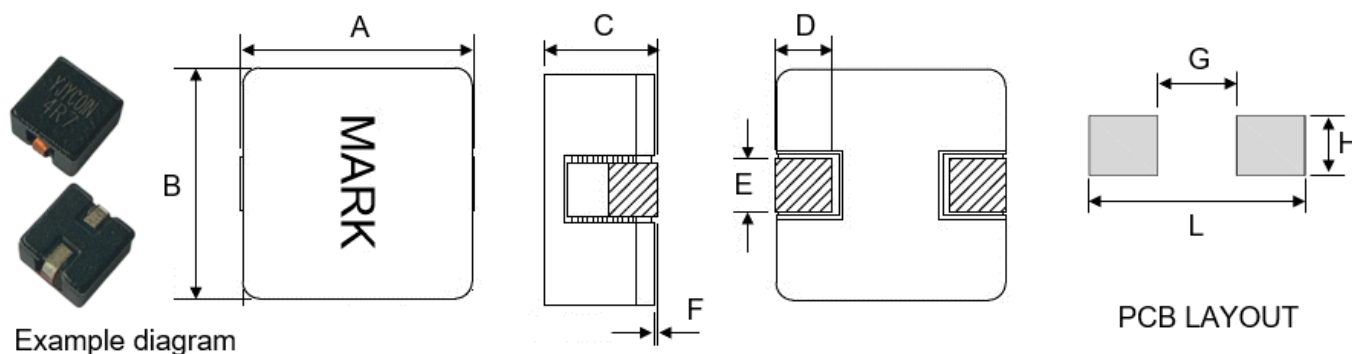
- High efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.

■ 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
YSFB0740B	7.0±0.3	6.9±0.3	3.8±0.3	1.8±0.3	1.2±0.3	0~0.3	2.4	2.2	7.8

■ Electrical requirements

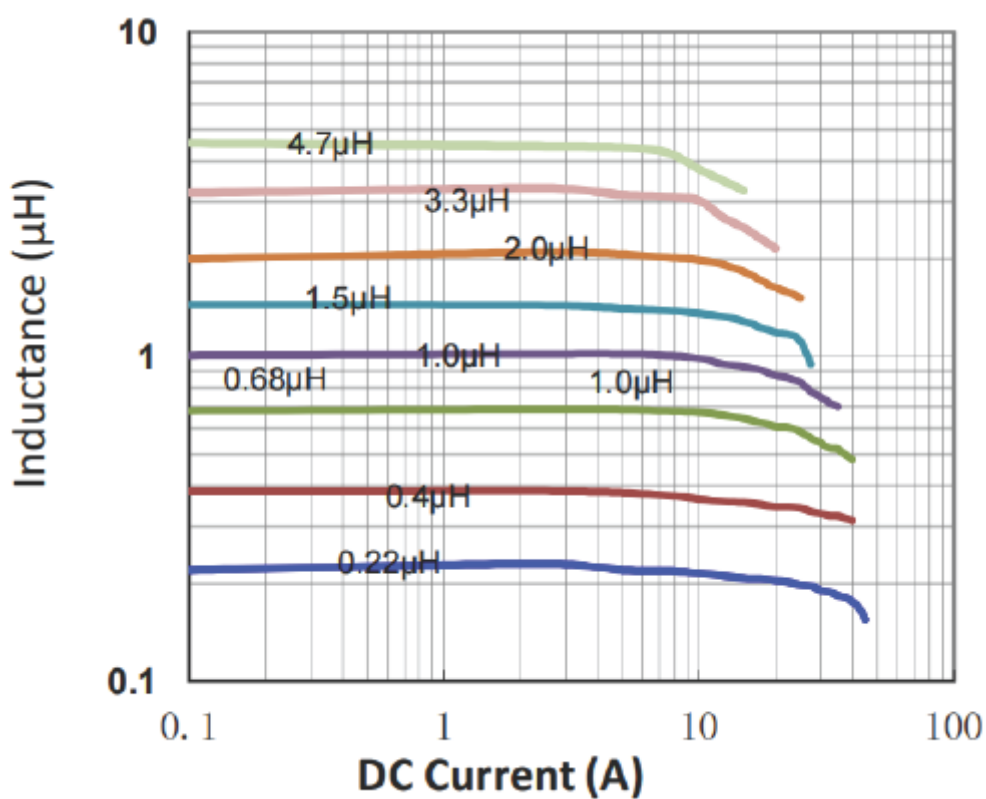
Part Number	Inductance (μ H) (@100KHz)	DCR (m Ω)		SRF Typ. (MHz)	I Sat Typ. (A)			I rms Typ.(A)	
		Typ.	Max.		10% drop	20% drop	30% drop	20°C rise	40°C rise
YSFB0740B-R22M	0.22 $\pm$ 20%	1.10	1.20	290	23.0	40.0	45.0	14.5	19.0
YSFB0740B-R40M	0.40 $\pm$ 20%	1.85	2.04	250	20.0	35.0	42.0	13.1	17.5
YSFB0740B-R68M	0.68 $\pm$ 20%	3.10	3.41	105	19.0	29.0	40.0	11.5	16.2
YSFB0740B-1R0M	1.0 $\pm$ 20%	4.60	5.06	85	17.0	20.0	34.0	11.0	14.8
YSFB0740B-1R5M	1.5 $\pm$ 20%	6.60	7.26	72	11.0	19.0	26.0	7.5	10.3
YSFB0740B-2R2M	2.2 $\pm$ 20%	11.4	12.5	52	10.0	16.0	24.0	6.0	8.2
YSFB0740B-3R3M	3.3 $\pm$ 20%	17.2	18.9	43	8.0	13.0	19.0	4.5	6.0
YSFB0740B-4R7M	4.7 $\pm$ 20%	19.5	21.5	33	6.8	10.0	14.0	4.2	5.7

- ※ 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.

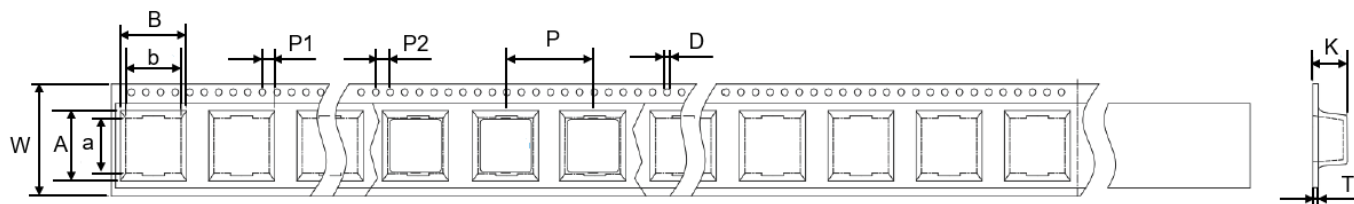
■ Electrical Schematics



■ Electrical Characteristic Curve

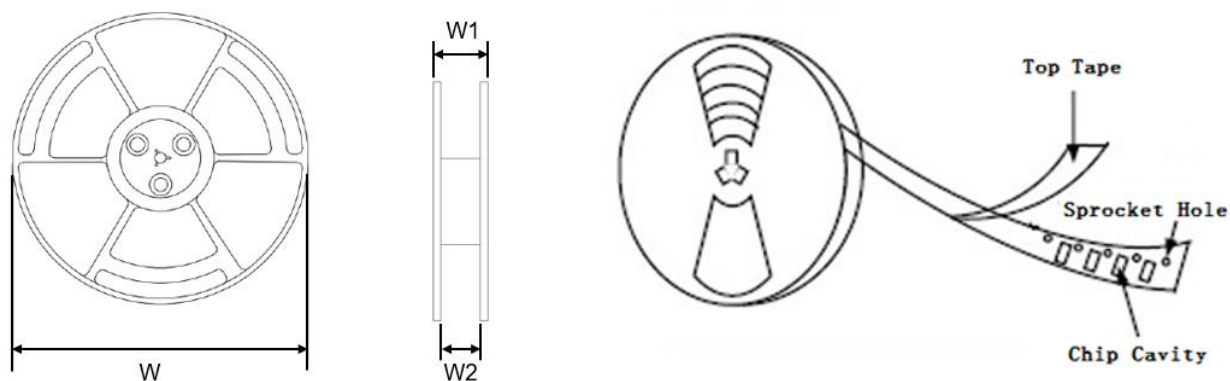


Taping Dimensions(Unit:mm)



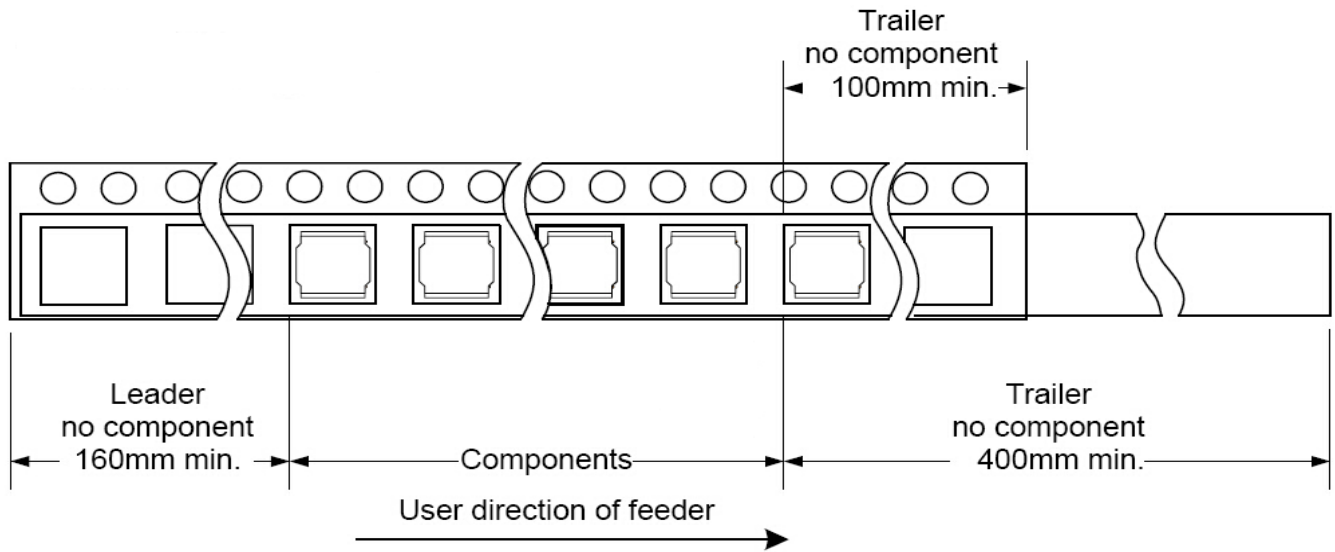
W	A	a	B	b	P	P1	P2	D	K	T
16.0	8.0	7.9	8.5	7.0	12.0	2.0	4.0	1.5	4.4	0.35

Reel Dimensions(Unit:mm)

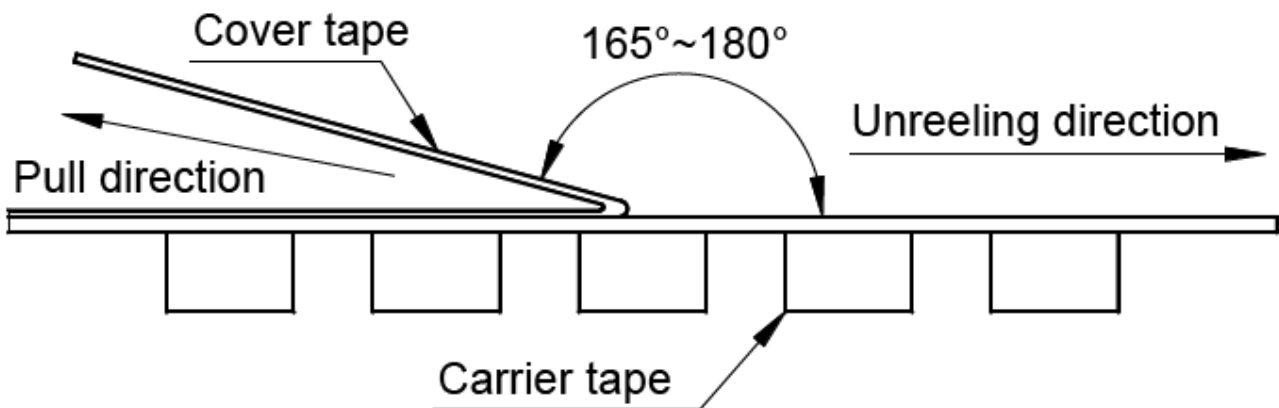


TYPE	W	W1 Max.	W2	MPQ
YSFB0740B	330±1.5	22.4	16.4±0.2	1000 PCS/Reel

■ 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.