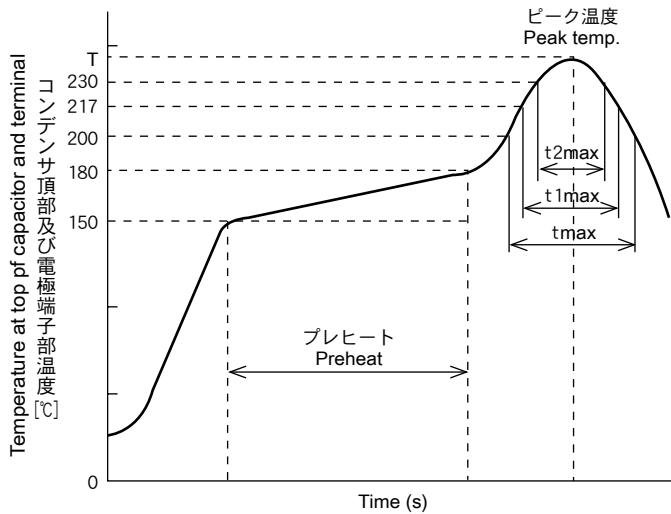


●チップ形(CE-32)リフロー許容条件 / CHIP (CE-32) TYPE PERMISSIBLE REFLOW CONDITION

〔プロファイル 1 / Profile 1〕

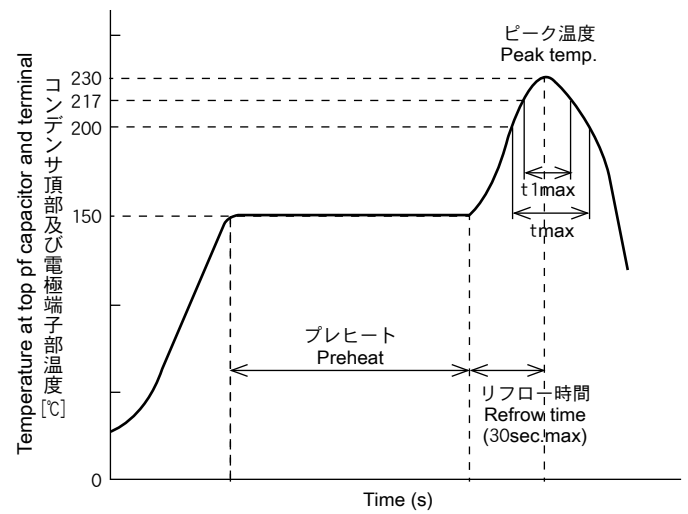
エアリフロー法及び赤外線リフロー法
AIR reflow and IR reflow



プレヒートは150~180°C以下で120秒以内
Preheat : 150°C to 180°C, Within 120sec.

〔プロファイル 2 / Profile 2〕

エアリフロー法及び赤外線リフロー法
AIR reflow and IR reflow



プレヒートは150°C以下で120秒以内
Preheat : 150°C, Within 120sec.

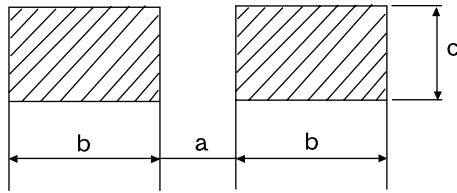
リーズ名 Series	電圧範囲 Voltage (V)	対象サイズ Size	200°C以上での 滞留時間 (t) Time for more than 200°C (t)	217°C以上での 滞留時間 (t1) Time for more than 217°C (t1)	230°C以上での 滞留時間 (t2) Time for more than 230°C (t2)	ピーク温度 (5秒以内) Peak temperature (Within 5sec)	プロファイル Profile
EC-LL EC-BSS EC-BS EC-FS EC-FH EC-GA EC-KX EC-NP EC-FN EC-LH	4~63	φ4~φ6.3	Within 70sec.	Within 60sec.	Within 40sec.	250°C	1
		φ8	Within 60sec.	Within 50sec.	Within 30sec.	245°C	1
		φ10, φ12.5	Within 50sec.	Within 40sec.	Within 20sec.	240°C	1
		φ16, φ18	Within 50sec.	Within 30sec.	Within 15sec.	235°C	1
	80~100	φ4~φ6.3	Within 60sec.	Within 50sec.	Within 40sec.	250°C	1
		φ8	Within 60sec.	Within 40sec.	Within 30sec.	240°C	1
		φ10	Within 50sec.	Within 30sec.	Within 20sec.	240°C	1
		φ12.5	Within 50sec.	Within 30sec.	Within 20sec.	235°C	1
	160~400	φ16, φ18	Within 45sec.	Within 20sec.	Within 10sec.	235°C	1
		φ8, φ10	Within 50sec.	Within 30sec.	Within 20sec.	240°C	1
φ12.5		Within 45sec.	Within 20sec.	Within 10sec.	235°C	1	
φ16, φ18		Within 30sec.	Within 15sec.	—	230°C	2	
EC-LX EC-LS EC-PC EC-PH EC-ZX EC-ZC	6.3~50	φ4~φ8	Within 80sec.	Within 70sec.	Within 40sec.	260°C	1
		φ10×10.2, 13.5	Within 70sec.	Within 60sec.	Within 40sec.	250°C	1
		φ12.5	Within 60sec.	Within 50sec.	Within 30sec.	245°C	1
		φ10×7.7, φ16, φ18	Within 50sec.	Within 40sec.	Within 20sec.	240°C	1
	63	φ8	Within 60sec.	Within 50sec.	Within 30sec.	245°C	1
		φ10, φ12.5	Within 50sec.	Within 40sec.	Within 20sec.	240°C	1
		φ16, φ18	Within 50sec.	Within 40sec.	Within 15sec.	235°C	1
	80~100	φ8	Within 60sec.	Within 50sec.	Within 30sec.	240°C	1
		φ10	Within 50sec.	Within 40sec.	Within 20sec.	240°C	1
		φ12.5	Within 50sec.	Within 40sec.	Within 20sec.	235°C	1
φ16, φ18		Within 45sec.	Within 30sec.	Within 10sec.	235°C	1	
EC-BD	ALL	ALL	Within 60sec.	Within 50sec.	Within 30sec.	245°C	1
EC-BE (S)	ALL	ALL	Within 50sec.	Within 40sec.	Within 20sec.	240°C	1

上記の条件で2回リフローを行うことは可としますが、2回目を行う場合は1時間以上自然冷却し、基板及び部品が常温に復帰後行って下さい。
Capacitors can withstand two reflow processes on the above conditions. Second reflow shall be taken after more than one hour natural cooling time and taken the return to normal temperatures of PCB board and components.

●チップ形(CE-32)推奨ランド寸法 / CHIP (CE-32) TYPE RECOMMENDED LAND PATTERN

Unit : mm

ランドパターン
LAND PATTERN



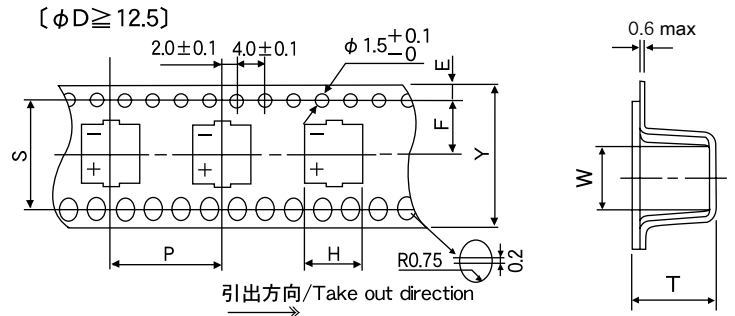
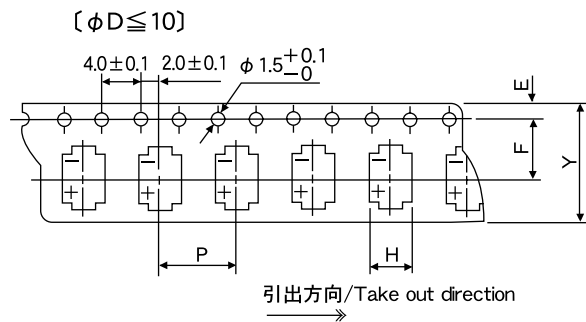
φD	a	b	c
φ4	1.0	2.6	1.8
φ5	1.4	3.0	1.8
φ6.3	2.1	3.6	1.8
φ8	2.8	4.1	2.1
φ10	4.3	4.4	2.5
φ12.5	4.3	5.8	2.5
φ16	6.6	6.5	5.0
φ18	6.6	7.7	5.0

※大形品については基板のパターン剥れ防止（耐振性）のため、できるだけ推奨ランド寸法よりパターン面積を大きく設けるよう推奨致します。

※When using large chip capacitor, please design possibly larger land pattern area than the recommended pattern dimension in order to increase vibration resistance and avoid to falling off a circuit board.

●チップ形(CE-32)テーピング仕様 / CHIP (CE-32) TYPE TAPING

■キャリアテープ/CARRIER TAPE



Unit : mm

D × L	Y±0.3	H±0.2	W±0.2	P±0.1	E±0.1	F±0.1	T±0.2	S±0.1
φ4×4.5	12.0	4.7	4.7	8.0	1.75	5.5	5.0	—
φ4×5.4	12.0	4.7	4.7	8.0	1.75	5.5	5.8	—
φ4×6.0	12.0	4.7	4.7	8.0	1.75	5.5	6.4	—
φ5×3.9	12.0	5.7	5.7	12.0	1.75	5.5	4.5	—
φ5×4.5	12.0	5.7	5.7	12.0	1.75	5.5	5.0	—
φ5×5.4	12.0	5.7	5.7	12.0	1.75	5.5	5.8	—
φ5×6.0	12.0	5.7	5.7	12.0	1.75	5.5	6.4	—
φ5×7.0	12.0	5.7	5.7	12.0	1.75	5.5	7.1	—
φ6.3×3.25	16.0	7.0	7.0	12.0	1.75	7.5	3.8	—
φ6.3×3.9	16.0	7.0	7.0	12.0	1.75	7.5	4.5	—
φ6.3×4.5	16.0	7.0	7.0	12.0	1.75	7.5	5.1	—
φ6.3×5.4	16.0	7.0	7.0	12.0	1.75	7.5	5.8	—
φ6.3×6.0	16.0	7.0	7.0	12.0	1.75	7.5	6.5	—
φ6.3×7.0	16.0	7.0	7.0	12.0	1.75	7.5	7.5	—
φ6.3×7.7	16.0	7.0	7.0	12.0	1.75	7.5	8.2	—
φ6.3×8.4	16.0	7.0	7.0	12.0	1.75	7.5	9.2	—
φ8×10.2 (10.5)	24.0	8.7	8.7	16.0	1.75	11.5	11.1	—
φ10×7.7	24.0	10.7	10.7	16.0	1.75	11.5	8.3	—
φ10×10.2 (10.5)	24.0	10.7	10.7	16.0	1.75	11.5	11.2	—
φ10×12.5	24.0	10.7	10.7	16.0	1.75	11.5	13.3	—
φ10×13.5	24.0	10.7	10.7	16.0	1.75	11.5	14.5	—
φ12.5×13.5	32.0	13.2	13.2	24.0	1.75	14.2	14.3	28.4
φ16×16.5	44.0	17.5	17.5	28.0	1.75	20.2	17.3	40.4
φ18×16.5	44.0	19.5	19.5	32.0	1.75	20.2	17.8	40.4
φ18×21.5	44.0	19.5	19.5	32.0	1.80	20.2	22.5	40.4

■リール
REEL

