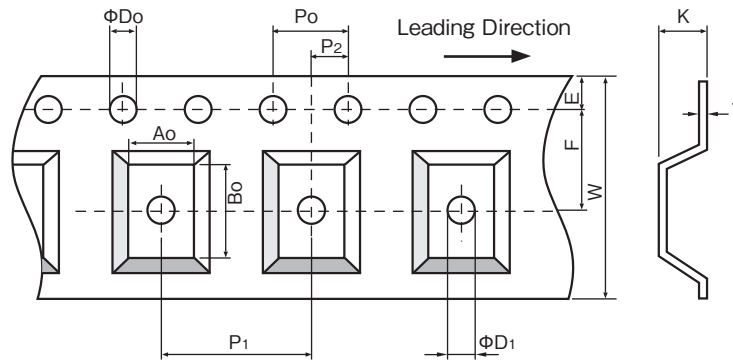
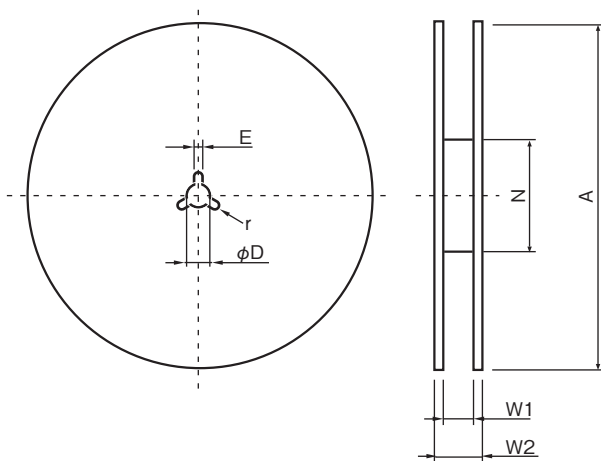


◆ CARRIER TAPE DIMENSIONS



Chip size	Taping code	Dimensions [mm]											
		A_0 ± 0.1	B_0 ± 0.1	W ± 0.2	F ± 0.05	E ± 0.1	P_1 ± 0.1	P_2 ± 0.05	P_0 ± 0.1	ϕD_0 ± 0.1	ϕD_1 $+0.2/-0$	K ± 0.1	T ± 0.05
1608	Y 1	1.1	1.9	8.0	3.5	1.75	4.0	2.0	4.0	1.5	—	0.8	0.20
2012	Z 1	1.45	2.25	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.0	1.0	0.25
	Z 2											1.3	0.25
3216 1632	A 1	1.9	3.5	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.1	1.4	0.30
	A 2											1.8	0.30
3225	B 1	2.8	3.5	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.0	1.8	0.30
	B 2											2.2	0.30
	B 3											2.4	0.30
4532 3245	C 1	3.6	4.9	12.0	5.5	1.75	8.0	2.0	4.0	1.5	1.5	1.8	0.30
	C 2											2.2	0.30
	C 3											2.4	0.30
	C 4											3.0	0.30
5750	D 1	5.3	6.0	12.0	5.5	1.75	8.0	2.0	4.0	1.5	1.6	2.2	0.30
	D 2											2.6	0.30
	D 3											3.0	0.30

◆ REEL DIMENSIONS



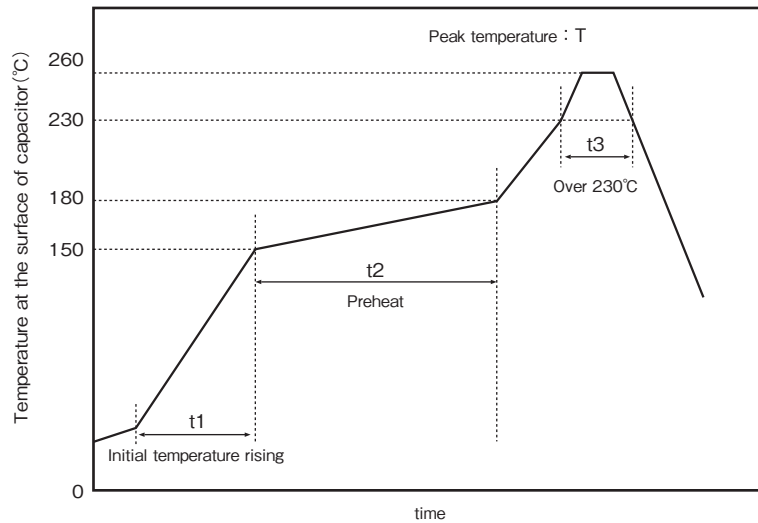
Chip size	Taping code	Reel size	Quantity
1608	Y1	$\phi 180$ mm	4,000pcs/reel
2012	Z1, Z2	$\phi 180$ mm	3,000pcs/reel
3216 1632	A1	$\phi 180$ mm	3,000pcs/reel
	A2	$\phi 180$ mm	2,000pcs/reel
3225	B1, B2, B3	$\phi 180$ mm	2,000pcs/reel
4532 3245	C1, C2	$\phi 180$ mm	1,000pcs/reel
	C3, C4	$\phi 180$ mm	500pcs/reel
5750	D1, D2	$\phi 180$ mm	1,000pcs/reel
	D3, D4	$\phi 180$ mm	500pcs/reel

Taping code	Dimensions [mm]						
	A ± 1.0	N ± 1.0	W_1 ± 1.0	W_2 ± 1.0	ϕD ± 0.2	E ± 0.5	r ± 0.2
Y, Z, A, B	180	60	9.5	13.1	13.0	2.0	1.0
C, D	180	60	13.5	18.5	13.0	2.0	1.0

● SOLDERING CONDITIONS

◆ REFLOW SOLDERING CONDITIONS

MU series/MS series/MR series/ST series



Period of initial temperature rising : t1	Period of preheat : t2	Period over 230°C : t3	Peak temperature : T
(room temperature) ~150°C 3°C/ sec MAX	150~180°C 60~120 sec	30~60 sec	260°C MAX

※Temperature is measured at the surface of capacitor.

- 1) Holding time at the peak temperature should be as short as possible.
- 2) Reflow soldering cycle is limited to two (2). The second soldering should be done after the capacitor itself has returned to room temperature.
- 3) Please consult us in advance if your reflow soldering condition is different from recommended condition.

◆ FLOW SOLDERING CONDITIONS

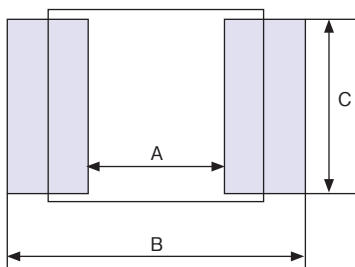
MU series/MS series/MR series/LDT series

Please consult us about flow soldering conditions.

◆ RECOMMENDED LAND SIZE

MU series/MS series/MR series/ST series

For designing land size, refer to the following recommended land size.
 However, in flow soldering, please enlarge B dimension about 0.4 to 0.6 mm.
 Please consult us in advance if your land desing is vastly different from recommended land size.



Chip size	Dimensions (mm)		
	A	B	C
1608	0.5	2.0	0.7
2012	0.8	2.4	1.1
3216	1.8	3.6	1.4
3225	1.8	3.6	2.3
4532	2.7	5.7	3.0
5750	3.5	7.8	4.5
1632	0.5	2.2	3.0
3245	1.8	3.6	4.1