

A FEATURES

- Surface mount type with compacted design
- Designed for power line, high current capability
- Many sizes available to choose from (4.7mm~15.0mm)
- Operating Temperature range from -40°C to +125°C (Including Self-heating)
- 260°C reflow peak temperature qualified



B PART NUMBER SYSTEM

$\frac{2CD}{\textcircled{1}}$ $\frac{7060}{\textcircled{2}}$ - $\frac{701}{\textcircled{3}}$ $\frac{E}{\textcircled{4}}$

①	Series	②	Dimension Code (L*W*H) (mm)	
2CD	Series Code		4745 (4.7×4.5×2.0)	7060 (7.0×6.0×3.8)
			9070 (9.0×7.0×4.8)	1211 (12.0×11.0×6.4)
			1513 (15.0×13.0×6.0)	
③	Z Code	④	RoHS Compliant	
e.g.	Calculation			
701	$70 \times 10^1 \Omega = 700 \Omega$			

C DRAWINGS AND DIMENSIONS

Drawings	Schematic
	<p>No polarity</p>

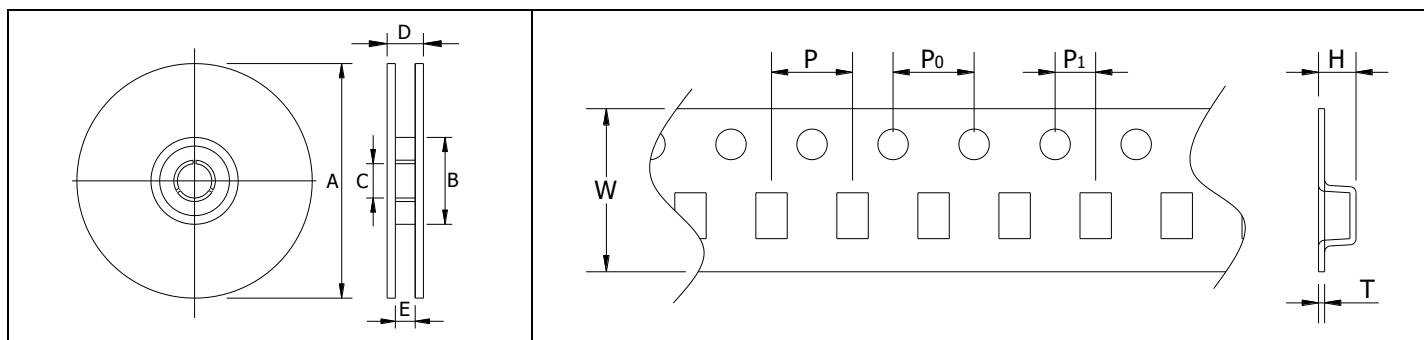
Case Size	Dimensions (mm)								
	A	B	C _{max.}	D _{ref.}	E _{ref.}	H _{ref.}	I _{ref.}	J _{ref.}	L _{ref.}
4745	4.7±0.5	4.5±0.5	2.0	1.00	0.75	1.05	0.95	1.5	6.0
7060	7.0±0.5	6.0±0.5	3.8	1.75	1.5	1.5	1.5	2.5	9.0
9070	9.0±0.5	7.0±0.5	4.8	1.75	1.5	2.0	1.5	2.5	11.0
1211	12±0.5	11±0.5	6.4	2.50	2.7	2.5	2.7	3.2	14.0
1513	15±0.5	13±0.5	6.0	3.00	2.7	3.8	2.7	3.3	17.0

D SPECIFICATIONS

Part Number	Z@100MHz (Ω)	Tolerance /	DCR ¹ Max.(Ω)	Ir ² (A)	U _{DC} (V)
2CD4745-900F	90	±25%	0.035	3.2	50
2CD4745-151F	150	±25%	0.040	3.1	50
2CD4745-231F	230	±25%	0.045	3.0	50
2CD4745-301F	300	±25%	0.045	3.0	50
2CD4745-401F	400	±25%	0.050	2.5	50
2CD4745-701F	700	±25%	0.059	2.2	50
2CD4745-901F	900	±25%	0.068	2.1	50
2CD4745-102F	1000	±25%	0.070	2.0	50
2CD4745-122F	1200	±25%	0.074	1.9	50
2CD4745-142F	1400	±25%	0.081	1.7	50
2CD7060-301F	300	±25%	0.010	5	80
2CD7060-701F	700	±25%	0.015	4	80
2CD7060-102F	1000	±25%	0.017	3	80
2CD7060-132F	1300	±25%	0.021	2.5	80
2CD9070-301F	300	±25%	0.006	6	80
2CD9070-701F	700	±25%	0.010	5	80
2CD9070-102F	1000	±25%	0.013	4	80
2CD9070-152F	1500	±25%	0.020	3.5	80
2CD9070-302F	3000	±25%	0.080	2	80
2CD1211-701F	700	±25%	0.006	8	80
2CD1211-102F	1000	±25%	0.014	6	80
2CD1513-551F	550	±25%	0.007	10	80

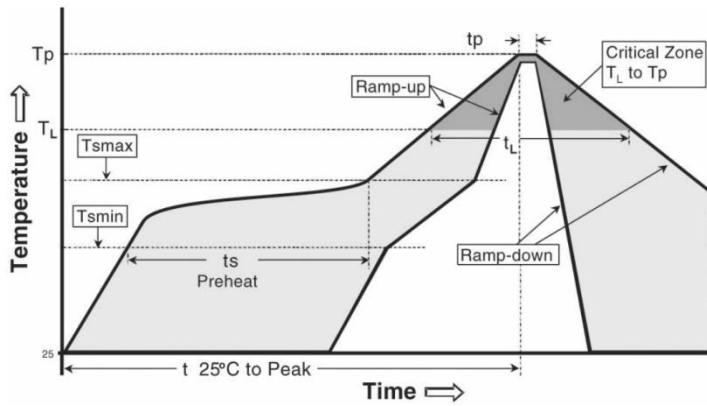
1. DCR for each single line, measured @ 25°C.
2. Ir: DC current for an approximate 40°C rise from 20°C ambient temperature.
3. Specifications subject to change without notice please check our website for latest information.

F TAPE AND REEL SPECIFICATIONS



Case Size	Parts per Reel	Reel Dimensions(REF)					Tape Dimensions(REF)					
		A	B	C	D	E	W	P	P ₀	P ₁	H	T
2CD4745	1000	178	58	13	13.0	9.0	12	4	4	2	2.2	0.2
2CD7060	1500	330	100	13	22.5	16.5	16	12	4	2	4.4	0.4
2CD9070	700	330	100	13	30.0	24.5	24	16	4	2	5.4	0.45
2CD1211	500	330	100	13	30.0	24.5	24	16	4	2	7.0	0.45
2CD1513	350	330	100	13	30.0	24.5	24	16	4	2	7.0	0.45

G RECOMMENDED SOLDER REFLOW PROFILE



Profile Feature	Recommended Conditions
Average ramp-up rate (Tsmmax to Tp)	3°C/second max.
Preheat	
Temperature Min (Tsmmin)	150°C
Temperature Max (Tsmmax)	200°C
Time (Tsmmin to Tsmmax)(ts)	60-180 seconds
Time maintained above:	
Temperature (T _L)	217°C
Time (t _L)	60-150 seconds
Peak Temperature (Tp)	See Table2
Time within 5°C of actual Peak Temperature (tp) ²	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max

Table 1

Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
< 1.6mm	260°C	260°C	260°C
1.6mm - 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

Table 2

1. The above profiles are based on IPC/JEDEC J-STD-020C.
2. Exceeding these conditions may cause lowered product reliability.