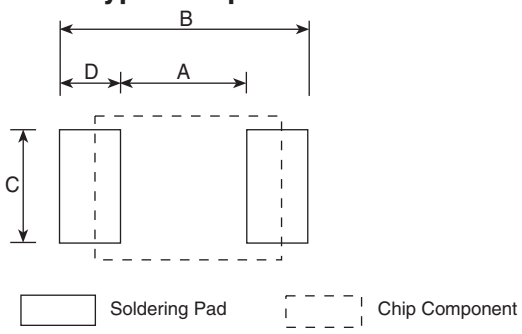
standard soldering pad dimensions

The optimum soldering pad dimensions may differ depending on soldering conditions, however, the following land dimensions are generally recommended.

Type	Style	Dimensions millimeters				
		Component Size	A	B	C	D
WG73 WK73 WU73	1E	0.5 X 1.0	0.2	1.1	1.0	0.45
	1J	0.8 X 1.6	0.4	1.7	1.6	0.65
	2A	1.25 X 2.0	0.55	2.35	2.0	0.9
	2B/2B15	1.6 X 3.2	0.7	2.3	3.2	0.8
	2H/2H2	2.5 X 5.0	1.0	35	5.0	1.25
	2J	3.1 X 4.6	1.6	3.9	4.75	1.15
	3A/3A3	3.1 X 6.4	1.6	3.9	6.4	1.15
RK73 RS73 SG73 RN73R RN73H SR73 LT73 NT73 LA73 RF73 HV73 LP73 SDT73	1F	0.4 X 0.2	0.12	0.48	0.18	0.18
	1H	0.6 X 0.3	0.25	0.7	0.3	0.225
	1E	1.0 X 0.5	0.5	1.3	0.3	0.4
	1J	1.6 X 0.8	1.0	2.0	0.6	0.5
	2A	2.0 X 1.25	1.3	2.5	1.05	0.6
	2B	3.2 X 1.6	2.2	4.0	1.4	0.9
	2E	3.2 X 2.5	2.2	4.0	2.3	0.9
	2H	5.0 X 2.5	3.3	6.1	2.3	1.4
	3A/W3W/ W3A2	6.4 X 3.2	4.6	8.0	3.0	1.7
SL/TSL	07, W07	5.0 X 2.5	2.3	7.0	2.6	2.35
	1, W1	6.3 X 3.1	3.4	8.0	3.0	2.3
	2-3	11.5 X 7.0	5.4	15.0	5.0	4.8
SLN	2, 3, 5	11.5 X 7.0	5.0	15.0	6.0	5.0
CCP	2E	3.2 X 2.5	2.2	5.0	2.0	1.4
	2B	3.2 x 1.6	2.2	5.0	1.4	1.4
CCF	1N, 1F	6.0 X 2.5	3.0	7.2	2.8	2.1
LPC	4045	4.5 X 4.0	1.5	5.1	3.5	1.8
	4235	4.5 X 4.2	1.9	5.5	2.6	1.8
	4545	4.1 X 4.6	2.9	5.3	4.7	1.2
	10065	10.0 X 10.4	5.0	13.0	6.0	4.0
	12065	12 X 12.4	5.0	15.0	7.5	5.0
KQT	0402	1.0 X 0.5	0.46	1.18	0.66	0.36
KQ KQC	0603	1.6 X 1.0	0.64	1.92	1.02	0.64
	0805	2.0 X 1.5	0.76	2.8	1.78	1.02
	1008	2.5 X 2.2	1.27	3.31	2.54	1.02
CZB CZP MHL	1E	0.50 X 0.10	0.4	1.6	0.6	—
	1J	0.80 X 1.6	0.55	2.6	0.94	—
	2A	1.25 X 2.0	0.66	3.0	1.45	—
	2B	1.6 X 3.2	1.5	4.4	1.8	—
TF	10	1.0 X 0.5	0.5	1.3	0.3	0.4
	16	1.6 X 0.8	1.0	2.0	0.6	0.5

Flat Type Components



Type	Style	Dimensions millimeters				
		Component Size	A	B	C	D
TLR	1E	1.0 X 0.5	0.2	1.3	0.6	0.55
	2A	2.0 X 1.25	0.5	2.5	1.3	1.0
	2BW/2BP (0.5mΩ)	3.2 X 1.6	0.6	4.0	1.8	1.7
	2BN/2B/ 2BW/2BP (1mΩ, 1.5mΩ)	3.2 X 1.6	0.8	4.0	1.8	1.6
	2BN/2B/ 2BW/2BP (2mΩ~20mΩ)	3.2 X 1.6	1.4	4.0	1.8	1.3
	2H, 2HW (0.5mΩ,1mΩ)	5.0 X 2.5	1.0	6.1	3.0	2.55
	2H, 2HW (2mΩ~6mΩ)	5.0 X 2.5	1.3	6.1	3.0	2.4
	2H, 2HW (7mΩ~10mΩ)	5.0 X 2.5	3.3	6.1	3.0	1.4
	3A(1mΩ)	6.35 X 3.18	1.45	7.55	3.83	3.05
	3A(2mΩ)	6.35 X 3.18	3.45	7.55	3.83	2.05
	3A(3mΩ)	6.35 X 3.18	2.15	7.55	3.83	2.70
	3A(4mΩ)	6.35 X 3.18	3.45	7.55	3.83	2.05
	3AW (0.5~0.82mΩ)	6.35 X 3.18	0.8	7.55	3.83	3.375
	3AW (1mΩ~4mΩ)	6.35 X 3.18	1.45	7.55	3.83	3.05
	3AW (5mΩ~8mΩ)	6.35 X 3.18	3.45	7.55	3.83	2.05
	3AW (9mΩ, 10mΩ)	6.35 X 3.18	4.40	7.55	3.83	1.575
	3AP (0.5~0.82mΩ)	6.35 X 3.18	0.80	7.55	3.83	3.375
	3AP (1mΩ)	6.35 X 3.18	1.45	7.55	3.83	3.05
	3AP (2mΩ)	6.35 X 3.18	1.05	7.55	3.83	3.25
	3AP (3mΩ~4mΩ)	6.35 X 3.18	1.45	7.55	3.83	3.05
	3AP (5mΩ~8mΩ)	6.35 X 3.18	3.45	7.55	3.83	2.05
	3AP (9mΩ~10mΩ)	6.35 X 3.18	4.40	7.55	3.83	1.575
	3APS	6.35 X 3.18	3.45	7.55	3.83	2.05

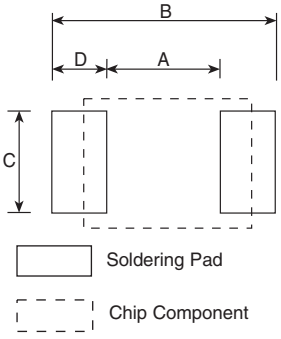
standard soldering pad dimensions (continued)

The optimum soldering pad dimensions may differ depending on soldering conditions, however, the following land dimensions are generally recommended.

Type	Style	Dimensions millimeters				
		Component Size	A	B	C	D
TLRH	2A	2.0 X 1.25	0.5	2.5	1.3	1.0
	3AW	6.3 X 3.2	4.4	7.5	3.7	1.55
	3AP	6.3 X 3.2	2.15	7.55	3.83	2.7
TLRZ	1E	1.0 X 0.5	0.5	1.3	0.6	0.4
	1J	1.6 X 0.8	0.5	2.0	0.9	0.75
	2A	2.0 X 1.25	0.5	2.5	1.45	1.0
	2B	3.2 X 1.6	2.2	3.8	1.8	0.8
UR73	2A	2.0 X 1.25	1.3	2.6	1.1	0.65
	2B	3.2 X 1.6	2.2	4.2	1.6	1.0
UR73D	1E	1.0 X 0.5	0.5	1.8	0.5	0.65
	1J	1.6 X 0.8	0.5	2.5	0.9	1.0
	2A	2.0 X 1.25	0.8	3.4	1.3	1.3
	2B	3.2 X 1.6	1.2	4.6	1.8	1.7
	2H (10mΩ~30mΩ)	5.0 X 2.5	1.8	6.1	2.6	2.15
	2H (33mΩ~100mΩ)	5.0 X 2.5	3.3	6.1	2.5	1.4
	3A (10mΩ~30mΩ)	6.3 X 3.1	2.3	8.0	3.3	2.85
	3A (33mΩ~100mΩ)	6.3 X 3.1	4.6	8.0	3.2	1.7
UR73V	2A	2.0 X 1.25	1.2	3.4	1.3	1.1
	2B	3.2 X 1.6	2.2	4.2	1.6	1.0
UR73VD	2A (10m~18m)	2.0 X 3.1	0.6	3.4	1.3	1.4
	2A (20m~36m)	2.0 X 3.1	0.8	3.4	1.3	1.3
	2B (10m~13m)	3.2 X 1.6	0.7	4.4	1.6	1.85
	2B (15m~16m)	3.2 X 1.6	0.9	4.4	1.6	1.75
	2B (18m~20m)	3.2 X 1.6	1.0	4.4	1.6	1.7
	2B (22m~27m)	3.2 X 1.6	1.1	4.4	1.6	1.65
NV73 NV73DL	1H	0.6 X 0.3	0.25-0.35	0.65-0.95	0.25-0.35	0.2-0.3
	1E	1.0 X 0.5	0.51	1.73	0.51	0.61
	1J	1.6 X 0.8	1.0	3.0	1.2	1.0
	2A	2.0 X 1.25	1.2	4.0	1.0	1.4
	2B	3.2 X 1.6	2.2	5.0	1.3	1.4
	2E	3.2 X 2.5	2.2	5.0	2.2	1.4
	2J	4.5 X 3.2	3.0	5.8	2.9	1.4
	2L	5.7 X 5.0	4.5	7.5	4.7	1.5

Type	Style	Dimensions millimeters				
		Component Size	A	B	C	D
NV73DS	2L	6.1 X 5.1	4.5	7.5	4.7	1.5
PS	L	6.3 X 3.15	3.4	7	3.4	1.8
	J	10.0 X 5.2	5.6	11	6.2	2.7
	B(0.2mΩ)	10.0 X 8.4	2.2	10.8	9.0	4.30
	B(0.75mΩ)	10.0 X 8.4	2.8	10.7	8.9	3.95
	B(1mΩ)	10.0 X 8.4	3.8	10.7	8.9	3.45
	I	10.0 X 5.2	5.6	11.0	6.2	2.7
	E	6.4 X 6.4	1.4	7.6	7.0	3.1

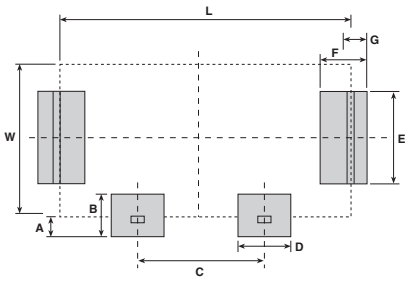
Flat Type Components



current sense resistor—CSR

Type	Dimensions inches (mm)								
	L	W	A	B	C	D	E	F	G
CSR1	.393 (10.0)	.236 (6.0)	.039 (1.0)	.078 (2.0)	.196 (5.0)	.062 (1.6)	.118 (3.0)	.078 (2.0)	.039 (1.0)
CSR2	.472 (12.0)	.314 (8.0)	.062 (1.6)	.125 (3.2)	.236 (6.0)	.086 (2.2)	.208 (5.3)	.090 (2.3)	.045 (1.15)

CSR

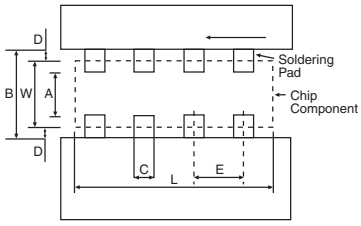


resistor arrays—CN

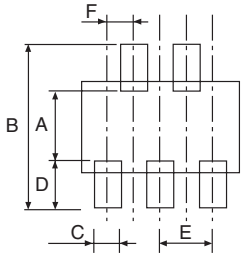
Type	Style	Dimensions								
		Component Size		A	B	C	D	E	F	G
		L*	W							
CN	1E2K	1.0	1.0	0.5	1.5	0.4	0.25	0.67	—	—
	1E4K	2.0	1.0			0.3	0.25	0.5	—	—
	1F8K	3.8	1.6	1.0	2.6	0.3	0.5	0.5	—	—
	1JA/K	0.8 X n	1.6	1.0	2.6	0.6	0.5	0.8	—	—
	1E	0.5 X n	1.0	0.5	1.5	0.3	0.5	0.5	—	—
	2B4A	5.1	3.1	2.1	4.1	0.9	0.5	1.27	—	—
	1J	0.8 X n	1.6	0.8	2.6	0.4	0.5	0.8	—	—
	2A	1.27 X n	2.0	1.0	3.0	0.65	0.5	1.27	—	—
	2B	1.27 X n	3.2	2.2	4.2	0.65	0.5	1.27	—	—
CND	1J10K	3.2	1.6	0.9	2.6	0.4	0.5	0.64	—	—
	2B10	6.4	3.1	2.1	4.1	0.6	0.5	1.27	—	—
	1J10Y	3.2	1.6	0.9	2.3	0.3	0.7	0.635	2.45	0.4
	2A10Y	4.0	2.1	1.0	3.0	0.4	1.0	0.8	3.4	0.4
CNB	2E5Z	3.2	2.5	1.7	3.9	0.5	1.1	1.0	0.5	—
	2B9Z	6.4	3.2	2.4	4.6	0.5	1.1	1.3	0.65	—
CNN	2A	2.54	2.0	1.2	2.8	0.6	0.4	1.27	—	—

* n = number of resistors

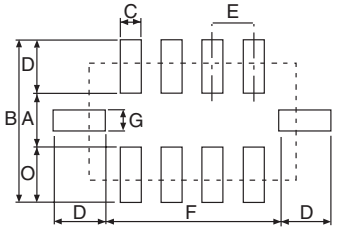
Chip Networks



CNB2E5Z, CNB2B9Z



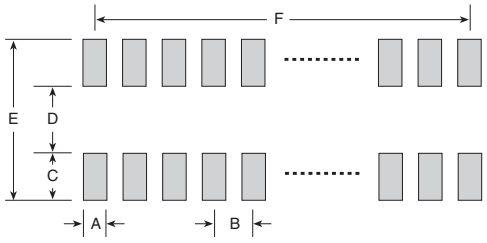
CND1J10Y, CND2A10Y



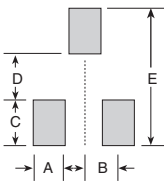
integrated passive devices—SOIC, TSSOP, QSOP & SOT23

Chip Size	Dimensions inches (mm)					
	A	B	C	D	E	F
N08	.028 (0.7)	.050 (1.27)	.094 (2.4)	.098 (2.5)	.287 (7.3)	.150 (3.81)
N14	.028 (0.7)	.050 (1.27)	.094 (2.4)	.098 (2.5)	.287 (7.3)	.300 (7.62)
N16	.028 (0.7)	.050 (1.27)	.094 (2.4)	.098 (2.5)	.287 (7.3)	.350 (8.89)
Q16	.012 (0.3)	.025 (0.63)	.050 (1.27)	.180 (4.56)	.280 (7.1)	.175 (4.45)
Q20	.012 (0.3)	.025 (0.63)	.050 (1.27)	.180 (4.56)	.280 (7.1)	.225 (5.72)
Q24	.012 (0.3)	.025 (0.63)	.050 (1.27)	.180 (4.56)	.280 (7.1)	.275 (6.99)
SOT23	.035 (0.9)	.037 (0.95)	.055 (1.4)	.031 (0.8)	.141 (3.6)	—

SOIC, TSSOP, QSOP

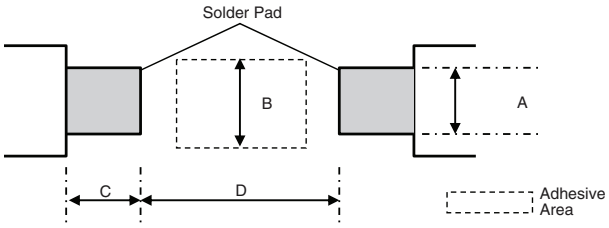


SOT23



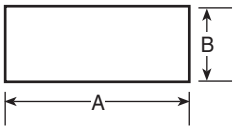
melf type components—RD41, RN41, RM41, MLT, CC

Type	Style	Dimensions millimeters				
		Component Size	A	B	C	D
RD41 RN41 RM41 CC	2A	2.0 X 1.25	1.3	1.3	2.0	1.3
	2ES 12M	3.5 X 1.40	1.5	2.2	1.5	2.0
	2D	3.2 X 1.55	1.5	2.2	1.5	2.0
	2E 25	5.9 X 2.2	2.0	3.0	3.0	4.0
	2H	5.9 X 2.2	2.0	3.0	3.0	4.0



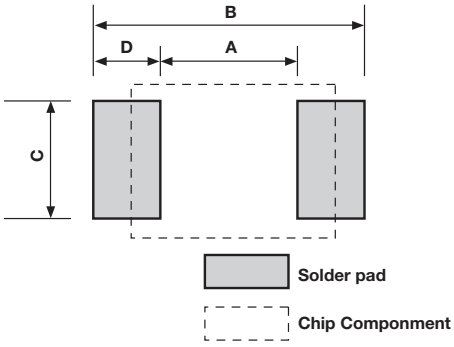
other chips—RCS, RCT, RCU, RCW

Type	Dimensions millimeters	
	A	B
RCS	4.1-4.3	1.4-1.6
RCT	2.9-3.1	1.05-1.25
RCU	2.5-2.7	0.6-0.8
RCW	4.1-4.3	1.4-1.6



power chip inductor—LPC

Type	Dimensions inches *(mm)*			
	A	B	C	D
LPC4045	.059 *(1.5)*	.201 *(5.1)*	.138 *(3.5)*	.071 *(1.8)*
LPC4235	.075 *(1.9)*	.217 *(5.5)*	.102 *(2.6)*	.071 *(1.8)*
LPC4545	.114 *(2.9)*	.209 *(5.3)*	.185 *(4.7)*	.047 *(1.2)*



current sense resistor—PSG/PSF

Dimensions inches *(mm)*									
Type	A	B	C	D	E	F	G	H	I
PSG4 (2725)	.078 *(2.0)*	.370 *(9.4)*	.220 *(5.6)*	.146 *(3.7)*	.031 *(0.8)*	.031 *(0.8)*	.307 *(7.8)*	.035 *(0.9)*	.138 *(3.5)*
PSF4 (1216)	.024 *(0.6)*	.142 *(3.6)*	.116 *(2.95)*	.059 *(1.5)*	.020 *(0.5)*	.024 *(0.6)*	.142 *(3.6)*	.028 *(0.7)*	.059 *(1.5)*