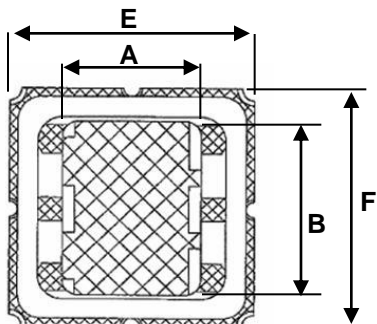
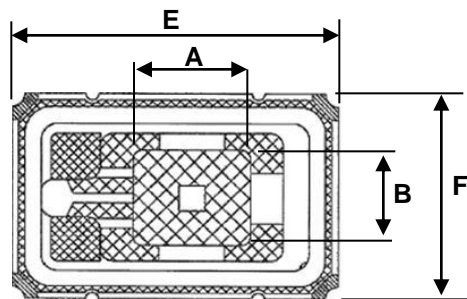


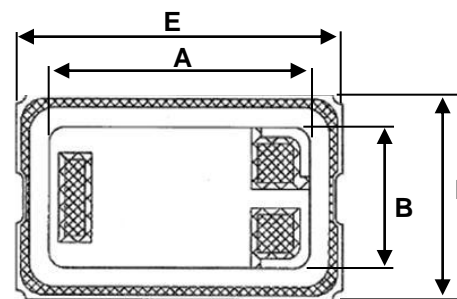
NTK C-SMD (Ceramic – Surface Mount Device)



SAW Filter PKG



OSC PKG



Crystal PKG

UNIT: inch

| LEAD COUNT | PKG TYPE | CAVITY | | | | | | OVERALL | | | LAYER THICKNESS | | | | NTK MATERIAL CODE B:Black W:White | CONNECTION (0:NON-Connect) | | DRAWING NO. |
|------------|----------|----------|---|-------|----------|---|-------|---------|---|-------|-----------------|-------|-------|-------|---|----------------------------|-------------|---------------|
| | | DIE CAV. | | | TOP CAV. | | | | | | 1st | 2nd | 3rd | TOTAL | | SEAL RING | DIE ATTACH | |
| | | A | X | B | C | X | D | E | X | F | | | | | | | | |
| 2 | X'tal | 0.157 | x | 0.087 | | | | 0.197 | x | 0.126 | 0.006 | 0.012 | | 0.018 | B | 0 | SEE DRAWING | IR - 8218A |
| 2 | X'tal | - | | - | 0.157 | x | 0.087 | 0.197 | x | 0.126 | 0.008 | 0.010 | | 0.018 | B | 0 | 0 | IR - 6733F |
| 2 | X'tal | 0.122 | x | 0.091 | 0.189 | x | 0.091 | 0.236 | x | 0.138 | 0.008 | 0.008 | 0.012 | 0.028 | B | 0 | SEE DRAWING | IR - 6735A-MO |
| 4 | X'tal | 0.065 | x | 0.049 | | | | 0.081 | x | 0.065 | 0.008 | 0.006 | | 0.014 | B | C | - | IR - 8264A |
| 4 | X'tal | 0.075 | x | 0.055 | | | | 0.100 | x | 0.081 | 0.005 | 0.007 | | 0.012 | B | 2, 4 | - | IR - 8283A |
| 4 | X'tal | 0.075 | x | 0.056 | | | | 0.100 | x | 0.081 | 0.004 | 0.007 | | 0.011 | B | 2, 4 | - | IR - 8344A |
| 4 | X'tal | 0.076 | x | 0.056 | | | | 0.100 | x | 0.081 | 0.007 | 0.007 | | 0.014 | B | 2, 4 | SEE DRAWING | IR - 8184K |
| 4 | X'tal | 0.081 | x | 0.061 | | | | 0.100 | x | 0.081 | 0.005 | 0.005 | | 0.009 | B | 2, 4 | - | IR - 8378A |
| 4 | OSC | 0.039 | x | 0.041 | 0.092 | x | 0.065 | 0.126 | x | 0.098 | 0.006 | 0.008 | 0.008 | 0.028 | B | Pad f, 3 | Pad g, 6 | IR - 7951A-MO |
| 4 | OSC | 0.039 | x | 0.057 | 0.092 | x | 0.065 | 0.126 | x | 0.098 | 0.008 | 0.007 | 0.008 | 0.023 | B | 0 | 0 | IR - 8167A |
| 4 | OSC | 0.051 | x | 0.049 | 0.094 | x | 0.067 | 0.126 | x | 0.098 | 0.006 | 0.010 | 0.008 | 0.030 | B | Pad c, 2 | - | IR - 8215A |
| 4 | OSC | 0.054 | x | 0.042 | 0.094 | x | 0.067 | 0.126 | x | 0.098 | 0.005 | 0.006 | 0.008 | 0.024 | B | Pad c, 2 | - | IR - 8627A |

NTK C-SMD (Ceramic – Surface Mount Device)

UNIT: inch

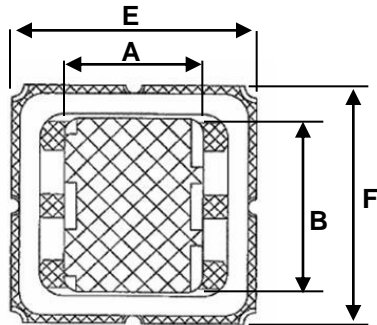
| LEAD COUNT | PKG TYPE | CAVITY | | | | | | OVERALL | | | LAYER THICKNESS | | | | NTK MATERIAL CODE B:Black W:White | CONNECTION (0:NON-Connect) | | DRAWING NO. | |
|------------|----------|----------|---|-------|----------|---|-------|---------|---|-------|-----------------|-------|-------|-------|---|-------------------------------|----------------------|----------------|--|
| | | DIE CAV. | | | TOP CAV. | | | | | | 1st | 2nd | 3rd | TOTAL | | SEAL RING | DIE ATTACH | | |
| | | A | X | B | C | X | D | E | X | F | | | | | | | | | |
| 4 | Xtal | 0.067 | x | 0.055 | 0.095 | x | 0.067 | 0.126 | x | 0.098 | 0.007 | 0.005 | 0.006 | 0.018 | B | 2, 4 | - | IR - 7493T | |
| 4 | Xtal | 0.067 | x | 0.055 | 0.095 | x | 0.067 | 0.126 | x | 0.098 | 0.007 | 0.005 | 0.006 | 0.018 | B | 2, 4 | - | IR - 8548B | |
| 4 | Xtal | 0.067 | x | 0.055 | 0.095 | x | 0.067 | 0.126 | x | 0.098 | 0.007 | 0.005 | 0.006 | 0.018 | B | 2, C | - | IR - 8554A | |
| 4 | Xtal | 0.091 | x | 0.063 | | | | 0.126 | x | 0.098 | 0.010 | 0.010 | | 0.020 | B | 0 | SEE DRAWING | IR - 7949A | |
| 4 | Xtal | 0.094 | x | 0.067 | | | | 0.126 | x | 0.098 | 0.010 | 0.010 | | 0.020 | B | 2,4 | SEE DRAWING | IR - 8165A | |
| 4 | Xtal | 0.094 | x | 0.067 | 0.114 | x | 0.087 | 0.126 | x | 0.098 | 0.006 | 0.005 | 0.010 | 0.021 | B | 2,4 | SEE DRAWING | IR - 7839A | |
| 4 | Xtal | 0.126 | x | 0.067 | | | | 0.157 | x | 0.098 | 0.006 | 0.010 | | 0.016 | B | 2,4 | SEE DRAWING | IR - 7014B | |
| 4 | OSC | 0.071 | x | 0.059 | 0.161 | x | 0.091 | 0.197 | x | 0.126 | 0.006 | 0.006 | 0.008 | 0.026 | B | PAD _a ,B | PAD _e , D | IR - 8240B | |
| 4 | OSC | 0.071 | x | 0.059 | 0.161 | x | 0.091 | 0.197 | x | 0.126 | 0.006 | 0.010 | 0.012 | 0.035 | B | B, f, g | B, f, g | IR - 8262A | |
| 4 | OSC | 0.071 | x | 0.059 | 0.161 | x | 0.091 | 0.197 | x | 0.126 | 0.006 | 0.010 | 0.012 | 0.035 | B | B, a, g | D, e | IR - 8177A | |
| 4 | OSC | 0.091 | x | 0.063 | 0.161 | x | 0.091 | 0.197 | x | 0.126 | 0.006 | 0.010 | 0.008 | 0.034 | B | 2, e | 2, e | IR - 7296B | |
| 4 | Xtal | 0.161 | x | 0.091 | | x | | 0.197 | x | 0.126 | 0.006 | 0.012 | | 0.018 | B | 2, 4 | - | IR - 8263A | |
| 4 | Xtal | 0.161 | x | 0.091 | | x | | 0.197 | x | 0.126 | 0.006 | 0.012 | | 0.018 | B | 2, 4 | - | IR - 7418G | |
| 4 | Xtal | 0.122 | x | 0.091 | 0.189 | x | 0.091 | 0.236 | x | 0.138 | 0.008 | 0.008 | 0.012 | 0.028 | B | No.2, 4 | - | IR - 6083D | |
| 4 | Xtal | 0.122 | x | 0.091 | 0.189 | x | 0.091 | 0.236 | x | 0.138 | 0.006 | 0.006 | 0.012 | 0.024 | B | No.2, 4 | - | IR - 7577-MO | |
| 4 | Xtal | 0.122 | x | 0.091 | 0.189 | x | 0.091 | 0.236 | x | 0.138 | 0.006 | 0.006 | 0.010 | 0.022 | B | No.2, 4 | - | IR - 7771A-MO | |
| 4 | Xtal | 0.126 | x | 0.091 | 0.181 | x | 0.091 | 0.236 | x | 0.146 | 0.010 | 0.008 | 0.012 | 0.030 | B | a, c | - | IR - 6074F-MO | |
| 4 | OSC | 0.087 | x | 0.073 | 0.213 | x | 0.142 | 0.276 | x | 0.197 | 0.006 | 0.010 | 0.012 | 0.037 | B | 2, E | 4, b, G | IR - 8394A | |
| 4 | Xtal | 0.150 | x | 0.142 | 0.213 | x | 0.142 | 0.276 | x | 0.197 | 0.010 | 0.006 | 0.010 | 0.026 | B | 2, 4 | - | IR - 6730G | |
| 4 | OSC | 0.189 | x | 0.134 | 0.213 | x | 0.134 | 0.276 | x | 0.197 | 0.010 | 0.035 | 0.010 | 0.055 | B | 2, J | SEE DRAWING | IR - 7870A-MO | |
| 6 | SAW | 0.063 | x | 0.043 | | x | | 0.118 | x | 0.118 | 0.020 | 0.010 | | 0.030 | B | 1,3,4,5,7,B | 1,3,4,5,7,B | IR - 6425AA-MO | |
| 6 | SAW | 0.086 | x | 0.054 | 0.086 | x | 0.086 | 0.118 | x | 0.118 | 0.008 | 0.015 | 0.012 | 0.035 | B | 1,3,4,6 | A,C,D,F,1,3,4,6 | IR - 6396C | |
| 6 | SAW | 0.087 | x | 0.067 | 0.091 | x | 0.091 | 0.118 | x | 0.118 | 0.006 | 0.016 | 0.008 | 0.030 | B | D/A | S/R | IR - 8479A | |
| 6 | OSC | 0.051 | x | 0.049 | 0.095 | x | 0.067 | 0.126 | x | 0.098 | 0.006 | 0.010 | 0.008 | 0.030 | B | 2, e | 2, e | IR - 8181A | |

NTK C-SMD (Ceramic – Surface Mount Device)

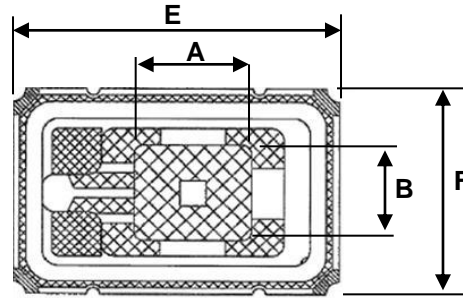
UNIT: inch

| LEAD COUNT | PKG TYPE | CAVITY | | | | | | OVERALL | | | LAYER THICKNESS | | | | NTK MATERIAL CODE B:Black W:White | CONNECTION (0:NON-Connect) | | DRAWING NO. |
|------------|----------|----------|---|-------|----------|---|-------|---------|---|-------|-----------------|-------|-------|-------|---|-------------------------------|-----------------------------------|---------------|
| | | DIE CAV. | | | TOP CAV. | | | | | | 1st | 2nd | 3rd | TOTAL | | SEAL RING | DIE ATTACH | |
| | | A | X | B | C | X | D | E | X | F | | | | | | | | |
| 6 | SAW | 0.118 | × | 0.083 | 0.118 | × | 0.118 | 0.150 | × | 0.150 | 0.014 | 0.016 | 0.010 | 0.040 | B | A,C,D,F | A,C,D,F,1,3,4,6 | IR - 6162J |
| 6 | OSC | 0.073 | × | 0.087 | 0.213 | × | 0.142 | 0.276 | × | 0.197 | 0.008 | 0.012 | 0.014 | 0.045 | B | D/A | S/R, H, 3 | IR - 6649AA |
| 8 | SAW | 0.054 | × | 0.086 | 0.086 | × | 0.086 | 0.118 | × | 0.118 | 0.008 | 0.015 | 0.012 | 0.035 | B | D/A | No.2, 4, 6, 8 | IR - 6466A-MO |
| 8 | SAW | 0.087 | × | 0.067 | 0.091 | × | 0.091 | 0.118 | × | 0.118 | 0.006 | 0.016 | 0.008 | 0.030 | B | B,D,G,J,4,8 | B,D,G,J,4,8 | IR - 6330D |
| 8 | SAW | 0.106 | × | 0.067 | 0.106 | × | 0.106 | 0.138 | × | 0.138 | 0.008 | 0.012 | 0.008 | 0.028 | B | GND | GND | IR - 6300Z-MO |
| 8 | SAW | 0.110 | × | 0.079 | 0.110 | × | 0.110 | 0.150 | × | 0.150 | 0.012 | 0.020 | 0.012 | 0.043 | B | D/A | C, F, 4, 8, S/R | IR - 6260V |
| 8 | CSP | | × | | | × | | 0.197 | × | 0.157 | 0.020 | | | 0.020 | B | 4, 8 | - | IR - 6224A-MO |
| 8 | SAW | 0.130 | × | 0.110 | 0.142 | × | 0.130 | 0.197 | × | 0.197 | 0.020 | 0.022 | 0.012 | 0.054 | B | 3, D | 0 | IR - 8480A |
| 8 | SAW | 0.134 | × | 0.161 | 0.161 | × | 0.161 | 0.197 | × | 0.197 | 0.010 | 0.010 | 0.010 | 0.030 | B | B,D,G,I,4,8 | B,D,G,I,4,8 | IR - 6463D |
| 10 | SAW | 0.228 | × | 0.118 | 0.228 | × | 0.150 | 0.276 | × | 0.197 | 0.014 | 0.016 | 0.016 | 0.045 | B | D/A | No.1, 2, 3, 6, 7, 8 | IR - 6324D-MO |
| 10 | SAW | 0.228 | × | 0.118 | 0.228 | × | 0.150 | 0.276 | × | 0.197 | 0.016 | 0.024 | 0.016 | 0.055 | B | D/A | No.1, 3, 7, 9 | IR - 6427A-MO |
| 10 | SAW | 0.280 | × | 0.159 | 0.280 | × | 0.201 | 0.358 | × | 0.280 | 0.012 | 0.020 | 0.016 | 0.047 | B | D/A | B, D, G, I, 4, 5, 9, 10, S/R | IR - 6261Z-MO |
| 10 | SAW | 0.362 | × | 0.146 | 0.398 | × | 0.146 | 0.449 | × | 0.197 | 0.015 | 0.015 | 0.020 | 0.050 | B | D/A | c, d, h, j, 4, 8, S/R | IR - 6406C-MO |
| 10 | SAW | 0.409 | × | 0.106 | 0.409 | × | 0.150 | 0.457 | × | 0.197 | 0.015 | 0.015 | 0.015 | 0.045 | B | D/A | No.2, 3, 6, 7 | IR - 6501-MO |
| 10 | SAW | 0.480 | × | 0.144 | 0.480 | × | 0.191 | 0.524 | × | 0.256 | 0.015 | 0.015 | 0.015 | 0.045 | B | D/A | B,C,D,G,H,J,2,3,4,7,8,9, S/R | IR - 6410A-MO |
| 10 | SAW | 0.472 | × | 0.177 | 0.472 | × | 0.240 | 0.543 | × | 0.323 | 0.015 | 0.015 | 0.012 | 0.042 | B | D/A | LEAD: B, D, G, J | IR - 7871-MO |
| 10 | SAW | 0.683 | × | 0.152 | 0.683 | × | 0.191 | 0.748 | × | 0.256 | 0.015 | 0.020 | 0.015 | 0.050 | B | B,C,D,G,H,J,L | B,C,D,G,H,J,L,2,3,4,7,8,9 | IR - 6502B |
| 10 | SAW | 0.890 | × | 0.203 | 0.890 | × | 0.274 | 0.970 | × | 0.354 | 0.027 | 0.020 | 0.020 | 0.067 | B | D/A | B,C,D,G,H,J,L, 2,3,6,7, S/R | IR - 6618B-MO |
| 12 | SAW | 0.232 | × | 0.114 | 0.232 | × | 0.154 | 0.276 | × | 0.197 | 0.020 | 0.020 | 0.010 | 0.049 | B | D/A | A,B,C,F,G,H, 1,2, 5-8, 11,12, S/R | IR - 6320D-MO |
| 12 | SAW | 0.411 | × | 0.177 | 0.461 | × | 0.177 | 0.524 | × | 0.256 | 0.012 | 0.018 | 0.016 | 0.045 | B | GND | GND | IR - 5857B-MO |
| 12 | SAW | 0.449 | × | 0.142 | 0.449 | × | 0.181 | 0.524 | × | 0.256 | 0.020 | 0.020 | 0.020 | 0.059 | B | 0 | - | IR - 6470A-MO |
| 24 | SAW | 0.606 | × | 0.075 | 0.606 | × | 0.114 | 0.685 | × | 0.193 | 0.016 | 0.024 | 0.024 | 0.063 | B | B,C,E,F | B,C,E,F,1,2,3,5,6,7-15,17-24 | IR - 7840A-MO |

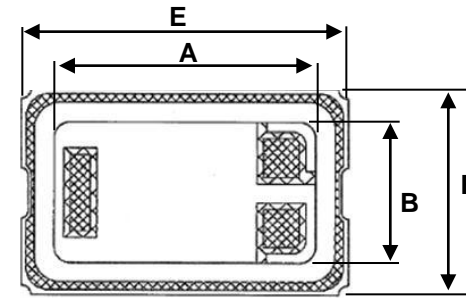
NTK C-SMD (Ceramic – Surface Mount Device)



SAW Filter PKG



OSC PKG



Crystal PKG

UNIT: mm

| LEAD COUNT | PKG TYPE | CAVITY | | | | | | OVERALL | | | LAYER THICKNESS | | | | NTK MATERIAL CODE B:Black W:White | CONNECTION (0:NON-Connect) | | DRAWING NO. |
|------------|----------|----------|---|-------|----------|---|-------|---------|---|-------|-----------------|-------|-------|-------|---|----------------------------|-------------|---------------|
| | | DIE CAV. | | | TOP CAV. | | | | | | 1st | 2nd | 3rd | TOTAL | | SEAL RING | DIE ATTACH | |
| | | A | X | B | C | X | D | E | X | F | | | | | | | | |
| 2 | Xtal | 3.100 | X | 2.300 | | | | 6.000 | X | 3.500 | 0.200 | 0.200 | 0.300 | 0.700 | B | 0 | SEE DRAWING | IR - 8218A |
| 2 | Xtal | - | | - | 3.988 | X | 2.210 | 5.004 | X | 3.200 | 0.203 | 0.254 | | 0.457 | B | 0 | 0 | IR - 6733F |
| 2 | Xtal | 3.100 | X | 2.300 | 4.800 | X | 2.300 | 6.000 | X | 3.500 | 0.200 | 0.200 | 0.300 | 0.700 | B | 0 | SEE DRAWING | IR - 6735A-MO |
| 4 | Xtal | 1.651 | X | 1.245 | | X | | 2.057 | X | 1.651 | 0.203 | 0.152 | | 0.356 | B | C | - | IR - 8264A |
| 4 | Xtal | 1.900 | X | 1.400 | | X | | 2.548 | X | 2.050 | 0.130 | 0.170 | | 0.300 | B | 2, 4 | - | IR - 8283A |
| 4 | Xtal | 1.910 | X | 1.410 | | X | | 2.548 | X | 2.050 | 0.100 | 0.180 | | 0.280 | B | 2, 4 | - | IR - 8344A |
| 4 | Xtal | 1.930 | X | 1.422 | | | | 2.540 | X | 2.057 | 0.178 | 0.178 | | 0.356 | B | 2,4 | SEE DRAWING | IR - 8184K |
| 4 | Xtal | 2.050 | X | 1.549 | | X | | 2.548 | X | 2.050 | 0.119 | 0.119 | | 0.239 | B | 2, 4 | - | IR - 8378A |
| 4 | OSC | 1.000 | X | 1.050 | 2.340 | X | 1.640 | 3.200 | X | 2.500 | 0.150 | 0.200 | 0.200 | 0.700 | B | Pad f, 3 | Pad g, 6 | IR - 7951A-MO |
| 4 | OSC | 0.991 | X | 1.448 | 2.337 | X | 1.651 | 3.200 | X | 2.500 | 0.198 | 0.178 | 0.198 | 0.574 | B | 0 | 0 | IR - 8167A |
| 4 | OSC | 1.295 | X | 1.245 | 2.388 | X | 1.702 | 3.200 | X | 2.500 | 0.152 | 0.254 | 0.203 | 0.030 | B | PAD c, 2 | - | IR - 8215A |
| 4 | OSC | 1.360 | X | 1.060 | 2.400 | X | 1.700 | 3.200 | X | 2.500 | 0.120 | 0.150 | 0.200 | 0.620 | B | Pad c, 2 | - | IR - 8627A |



NTK C-SMD (Ceramic – Surface Mount Device)

UNIT: mm

| LEAD COUNT | PKG TYPE | CAVITY | | | | | | OVERALL | | | LAYER THICKNESS | | | | NTK MATERIAL CODE B:Black W:White | CONNECTION (0:NON-Connect) | | DRAWING NO. | |
|------------|----------|----------|---|-------|----------|---|-------|---------|---|-------|-----------------|-------|-------|-------|---|-------------------------------|-----------------|----------------|--|
| | | DIE CAV. | | | TOP CAV. | | | | | | 1st | 2nd | 3rd | TOTAL | | SEAL RING | DIE ATTACH | | |
| | | A | X | B | C | X | D | E | X | F | | | | | | | | | |
| 4 | X'tal | 1.699 | x | 1.400 | 2.400 | x | 1.699 | 3.200 | x | 2.500 | 0.180 | 0.119 | 0.152 | 0.452 | B | 2, 4 | - | IR - 7493T | |
| 4 | X'tal | 1.699 | x | 1.400 | 2.400 | x | 1.699 | 3.200 | x | 2.500 | 0.180 | 0.119 | 0.152 | 0.452 | B | 2, 4 | - | IR - 8548B | |
| 4 | X'tal | 1.699 | x | 1.400 | 2.400 | x | 1.699 | 3.200 | x | 2.500 | 0.180 | 0.119 | 0.152 | 0.452 | B | 2, C | - | IR - 8554A | |
| 4 | X'tal | 2.311 | x | 1.600 | | | | 3.200 | x | 2.500 | 0.254 | 0.254 | | 0.508 | B | 0 | SEE DRAWING | IR - 7949A | |
| 4 | X'tal | 2.388 | x | 1.702 | | | | 3.200 | x | 2.500 | 0.254 | 0.254 | | 0.508 | B | 2,4 | SEE DRAWING | IR - 8165A | |
| 4 | X'tal | 2.388 | x | 1.702 | 2.896 | x | 2.210 | 3.200 | x | 2.500 | 0.152 | 0.127 | 0.254 | 0.533 | B | 2,4 | SEE DRAWING | IR - 7839A | |
| 4 | X'tal | 3.200 | x | 1.702 | | | | 3.988 | x | 2.500 | 0.152 | 0.254 | | 0.406 | B | 2,4 | SEE DRAWING | IR - 7014B | |
| 4 | OSC | 1.800 | x | 1.500 | 4.100 | x | 2.300 | 5.000 | x | 3.200 | 0.152 | 0.152 | 0.203 | 0.650 | B | PAD a,B | PAD e, D | IR - 8240B | |
| 4 | OSC | 1.800 | x | 1.500 | 4.100 | x | 2.300 | 5.000 | x | 3.200 | 0.152 | 0.254 | 0.305 | 0.899 | B | B, f, g | B, f, g | IR - 8262A | |
| 4 | OSC | 1.800 | x | 1.500 | 4.100 | x | 2.300 | 5.000 | x | 3.200 | 0.150 | 0.250 | 0.300 | 0.900 | B | B, a, g | D, e | IR - 8177A | |
| 4 | OSC | 2.301 | x | 1.600 | 4.100 | x | 2.300 | 5.000 | x | 3.200 | 0.150 | 0.254 | 0.201 | 0.851 | B | 2, e | 2, e | IR - 7296B | |
| 4 | X'tal | 4.100 | x | 2.301 | | x | | 5.000 | x | 3.200 | 0.152 | 0.305 | | 0.457 | B | 2, 4 | - | IR - 8263A | |
| 4 | X'tal | 4.100 | x | 2.299 | | x | | 5.000 | x | 3.200 | 0.152 | 0.300 | | 0.452 | B | 2, 4 | - | IR - 7418G | |
| 4 | X'tal | 3.099 | x | 2.301 | 4.798 | x | 2.299 | 5.999 | x | 3.500 | 0.201 | 0.201 | 0.300 | 0.701 | B | No.2, 4 | - | IR - 6083D | |
| 4 | X'tal | 3.099 | x | 2.311 | 4.798 | x | 2.299 | 5.994 | x | 3.500 | 0.150 | 0.150 | 0.300 | 0.599 | B | No.2, 4 | - | IR - 7577-MO | |
| 4 | X'tal | 3.099 | x | 2.311 | 4.798 | x | 2.299 | 5.994 | x | 3.498 | 0.150 | 0.150 | 0.249 | 0.549 | B | No.2, 4 | - | IR - 7771A-MO | |
| 4 | X'tal | 3.200 | x | 2.301 | 4.597 | x | 2.301 | 5.999 | x | 3.701 | 0.254 | 0.203 | 0.300 | 0.757 | B | a, c | - | IR - 6074F-MO | |
| 4 | OSC | 2.200 | x | 1.850 | 5.400 | x | 3.600 | 7.000 | x | 5.000 | 0.150 | 0.250 | 0.300 | 0.950 | B | 2, E | 4, b, G | IR - 8394A | |
| 4 | X'tal | 3.800 | x | 3.599 | 5.400 | x | 3.599 | 7.000 | x | 5.000 | 0.254 | 0.152 | 0.254 | 0.660 | B | 2, 4 | - | IR - 6730G | |
| 4 | OSC | 4.801 | x | 3.404 | 5.410 | x | 3.404 | 7.000 | x | 5.000 | 0.254 | 0.889 | 0.254 | 1.397 | B | 2, J | SEE DRAWING | IR - 7870A-MO | |
| 6 | SAW | 1.600 | x | 1.100 | | x | | 3.000 | x | 3.000 | 0.500 | 0.254 | | 0.754 | B | 1,3,4,5,7,B | 1,3,4,5,7,B | IR - 6425AA-MO | |
| 6 | SAW | 2.179 | x | 1.369 | 2.179 | x | 2.179 | 3.000 | x | 3.000 | 0.203 | 0.381 | 0.305 | 0.889 | B | 1,3,4,6 | A,C,D,F,1,3,4,6 | IR - 6396C | |
| 6 | SAW | 2.200 | x | 1.700 | 2.300 | x | 2.300 | 3.000 | x | 3.000 | 0.150 | 0.400 | 0.200 | 0.750 | B | D/A | S/R | IR - 8479A | |
| 6 | OSC | 1.300 | x | 1.250 | 2.400 | x | 1.699 | 3.200 | x | 2.500 | 0.152 | 0.254 | 0.203 | 0.610 | B | 2, e | 2, e | IR - 8181A | |

NTK C-SMD (Ceramic – Surface Mount Device)

UNIT: mm

| LEAD COUNT | PKG TYPE | CAVITY | | | | | | OVERALL | | | LAYER THICKNESS | | | | NTK MATERIAL CODE B:Black W:White | CONNECTION (0:NON-Connect) | | DRAWING NO. |
|------------|----------|----------|---|-------|----------|---|-------|---------|---|-------|-----------------|-------|-------|-------|---|-------------------------------|----------------------------------|---------------|
| | | DIE CAV. | | | TOP CAV. | | | | | | 1st | 2nd | 3rd | TOTAL | | SEAL RING | DIE ATTACH | |
| | | A | X | B | C | X | D | E | X | F | | | | | | | | |
| 6 | SAW | 2.997 | × | 2.101 | 2.997 | × | 2.997 | 3.800 | × | 3.800 | 0.351 | 0.399 | 0.254 | 1.003 | B | A,C,D,F | A,C,D,F,1,3,4,6 | IR - 6162J |
| 6 | OSC | 1.850 | × | 2.200 | 5.400 | × | 3.600 | 7.000 | × | 5.000 | 0.200 | 0.300 | 0.350 | 1.150 | B | D/A | S/R, H, 3 | IR - 6649AA |
| 8 | SAW | 1.369 | × | 2.179 | 2.179 | × | 2.184 | 3.000 | × | 3.000 | 0.201 | 0.381 | 0.302 | 0.884 | B | D/A | No.2, 4, 6, 8 | IR - 6466A-MO |
| 8 | SAW | 2.200 | × | 1.699 | 2.301 | × | 2.301 | 3.000 | × | 3.000 | 0.150 | 0.399 | 0.201 | 0.749 | B | B,D,G,J,4,8 | B,D,G,J,4,8 | IR - 6330D |
| 8 | SAW | 2.700 | × | 1.700 | 2.700 | × | 2.700 | 3.500 | × | 3.500 | 0.200 | 0.300 | 0.200 | 0.700 | B | GND | GND | IR - 6300Z-MO |
| 8 | SAW | 2.800 | × | 2.000 | 2.800 | × | 2.800 | 3.800 | × | 3.800 | 0.300 | 0.500 | 0.300 | 1.100 | B | D/A | C, F, 4, 8, S/R | IR - 6260V |
| 8 | CSP | | × | | | × | | 5.000 | × | 4.000 | 0.500 | | | 0.500 | B | 4, 8 | - | IR - 6224A-MO |
| 8 | SAW | 3.299 | × | 2.794 | 3.599 | × | 3.299 | 5.000 | × | 5.000 | 0.500 | 0.569 | 0.300 | 1.369 | B | 3, D | 0 | IR - 8480A |
| 8 | SAW | 3.404 | × | 4.089 | 4.089 | × | 4.089 | 5.000 | × | 5.000 | 0.254 | 0.254 | 0.254 | 0.762 | B | B,D,G,I,4,8 | B,D,G,I,4,8 | IR - 6463D |
| 10 | SAW | 5.791 | × | 2.997 | 5.791 | × | 3.800 | 7.000 | × | 5.000 | 0.351 | 0.399 | 0.399 | 1.148 | B | D/A | No.1, 2, 3, 6, 7, 8 | IR - 6324D-MO |
| 10 | SAW | 5.799 | × | 2.997 | 5.799 | × | 3.800 | 7.000 | × | 5.000 | 0.399 | 0.599 | 0.399 | 1.397 | B | D/A | No.1, 3, 7, 9 | IR - 6427A-MO |
| 10 | SAW | 7.100 | × | 4.050 | 7.100 | × | 5.100 | 9.100 | × | 7.100 | 0.300 | 0.500 | 0.400 | 1.200 | B | D/A | B, D, G, I, 4, 5, 9, 10, S/R | IR - 6261Z-MO |
| 10 | SAW | 9.200 | × | 3.700 | 10.100 | × | 3.700 | 11.400 | × | 5.000 | 0.380 | 0.380 | 0.500 | 1.260 | B | D/A | c, d, h, j, 4, 8, S/R | IR - 6406C-MO |
| 10 | SAW | 10.389 | × | 2.692 | 10.400 | × | 3.800 | 11.598 | × | 5.000 | 0.381 | 0.381 | 0.381 | 1.143 | B | D/A | No.2, 3, 6, 7 | IR - 6501-MO |
| 10 | SAW | 12.200 | × | 3.670 | 12.200 | × | 4.860 | 13.300 | × | 6.500 | 0.380 | 0.380 | 0.380 | 1.140 | B | D/A | B,C,D,G,H,J,2,3,4,7,8,9, S/R | IR - 6410A-MO |
| 10 | SAW | 11.989 | × | 4.498 | 12.000 | × | 6.096 | 13.800 | × | 8.199 | 0.381 | 0.381 | 0.300 | 1.062 | B | D/A | LEAD: B, D, G, J | IR - 7871-MO |
| 10 | SAW | 17.348 | × | 3.851 | 17.348 | × | 4.859 | 18.999 | × | 6.500 | 0.381 | 0.500 | 0.381 | 1.262 | B | B,C,D,G,H,J,L | B,C,D,G,H,J,L,2,3,4,7,8,9 | IR - 6502B |
| 10 | SAW | 22.610 | × | 5.160 | 22.610 | × | 6.960 | 24.640 | × | 8.990 | 0.690 | 0.508 | 0.508 | 1.706 | B | D/A | B,C,D,G,H,J,L, 2,3,6,7, S/R | IR - 6618B-MO |
| 12 | SAW | 5.900 | × | 2.900 | 5.900 | × | 3.900 | 7.000 | × | 5.000 | 0.500 | 0.500 | 0.250 | 1.250 | B | D/A | A,B,C,F,G,H, 1,2,5-8, 11,12, S/R | IR - 6320D-MO |
| 12 | SAW | 10.440 | × | 4.500 | 11.700 | × | 4.500 | 13.300 | × | 6.500 | 0.300 | 0.450 | 0.400 | 1.150 | B | GND | GND | IR - 5857B-MO |
| 12 | SAW | 11.400 | × | 3.599 | 11.400 | × | 4.600 | 13.300 | × | 6.500 | 0.500 | 0.500 | 0.500 | 1.501 | B | 0 | - | IR - 6470A-MO |
| 24 | SAW | 15.400 | × | 1.900 | 15.400 | × | 2.901 | 17.399 | × | 4.900 | 0.399 | 0.599 | 0.599 | 1.598 | B | B,C,E,F | B,C,E,F,1,2,3,5,6,7-15,17-24 | IR - 7840A-MO |

