

## Solder Foot Print for Surface Mount Package

Solder foot print for each package are shown in the following table.

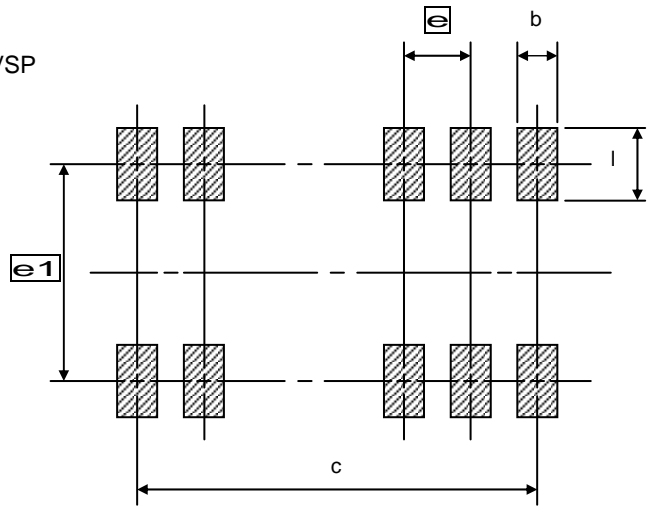
Please take easiness of mounting, reliability of bonding, prevention of solder bridge, margin of pattern area into consideration when designing the solder pads.

### Example of Solder Foot Print Dimensions

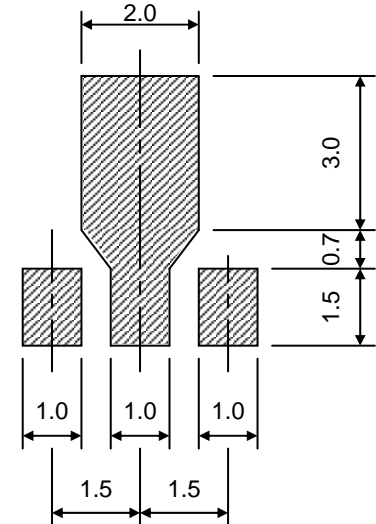
DMP/SDMP/SOP/SOP JEDEC/EMP/SOT/FLP/SSOP/VSP/TVSP

PKG	b	l	c	e1	e
DMP8/DMP8-1	0.72	1.27	3.81	6.10	1.27
DMP14	0.72	1.27	7.62	6.10	1.27
DMP16	0.72	1.27	8.89	6.10	1.27
DMP20	0.72	1.27	8.55	6.10	0.95
DMP42	0.72	1.27	25.40	11.00	1.27
SOP8	0.76	1.27	3.81	6.07	1.27
SOP18	0.76	1.27	10.16	7.07	1.27
SOP20	0.76	1.27	11.43	7.07	1.27
SOP22	0.76	1.27	12.70	7.07	1.27
SOP24	0.76	1.27	13.97	11.43	1.27
SOP28	0.76	1.27	16.51	9.17	1.27
SOP32-L1	0.72	1.50	19.05	13.20	1.27
SOP40	0.76	1.27	24.13	11.70	1.27
SOP40-K1	0.72	1.50	24.13	13.20	1.27
SOP8 JEDEC 150 mil	0.72	1.27	3.81	5.72	1.27
SOP16 JEDEC	0.72	1.27	8.89	9.53	1.27
SOP20 JEDEC	0.72	1.27	11.43	9.53	1.27
SOP24 JEDEC	0.72	1.27	13.97	9.53	1.27
SOT-23-6(MTP6)	0.70	1.00	1.90	2.40	0.95
SOT-23-6(MTP6-1)	0.70	1.00	1.90	2.40	0.95
DFN6-J1 (SON6-J1)	0.25	0.75	1.00	2.85	0.50
DFN10-K1 (SON10-K1)	0.30	0.65	2.00	2.95	0.50
SC-82AB	0.40	0.80	1.30	1.90	1.30
FLP6-A1	0.30	0.50	1.00	1.50	0.50
FLP6-B2	0.40	0.50	1.30	1.80	0.65
FLP10-C1	0.25	0.60	2.00	2.50	0.50
SSOP8/SSOP8-A3	0.35	1.00	1.95	5.90	0.65
SSOP10	0.23	1.00	2.00	5.90	0.50
SSOP14	0.35	1.00	3.90	5.90	0.65
SSOP16	0.35	1.00	4.55	5.90	0.65
SSOP20	0.35	1.00	5.85	5.90	0.65
SSOP20-B2	0.225	1.00	4.50	5.90	0.50
SSOP20-C3/M1	0.35	1.00	5.85	5.92	0.65
SSOP20-F1	0.45	1.00	7.20	7.30	0.80
SSOP24	0.45	1.00	8.80	7.30	0.80
SSOP24-C2	0.30	1.00	5.50	5.90	0.50
SSOP24-E1	0.35	1.00	7.15	7.10	0.65
SSOP28	0.35	1.00	8.45	7.10	0.65
SSOP32	0.35	1.00	9.75	7.10	0.65
SSOP44	0.30	1.00	10.5	7.10	0.50
MSOP8 (VSP8) *MEET JEDEC MO-187-DA	0.23	1.00	1.95	3.50	0.65
MSOP10 (VSP10) *MEET JEDEC MO-187-DA	0.23	1.00	2.00	3.50	0.50
MSOP8(TVSP8)* *MEET JEDEC MO-187-DA / THIN TYPE	0.23	1.00	1.95	3.50	0.65
MSOP10(TVSP10)* *MEET JEDEC MO-187-DA / THIN TYPE	0.23	1.00	2.00	3.50	0.50

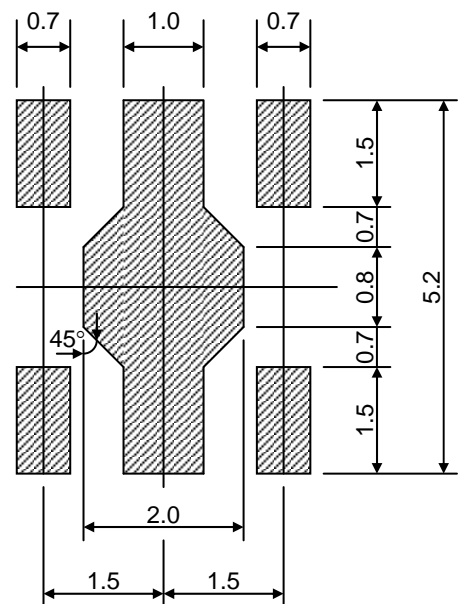
Unit : mm



### SOT-89-3



### SOT-89-5-1 SOT-89-5-2



Unit : mm

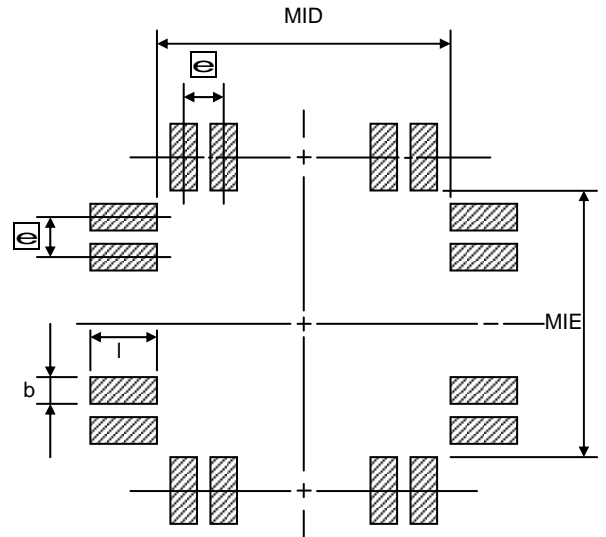
Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

# SOLDER FOOT PRINT

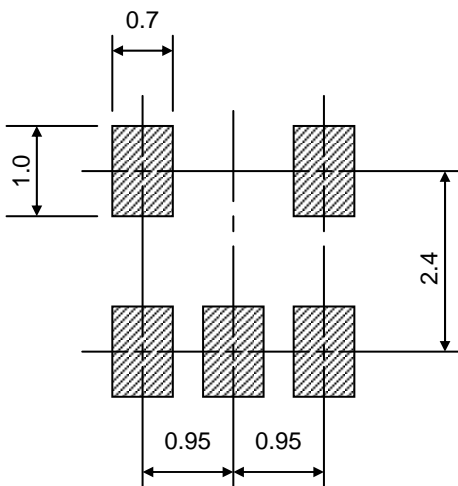
## PLCC/QFP/QFN

PKG	MOLD SIZE	b	l	e	MID	MIE
QFN20-M1	4.2×4.2	0.32	0.95	0.5	2.7	2.7
QFN28-N1	5.2×5.2	0.32	0.95	0.5	3.7	3.7
QFN28-P4	4.7×4.7	0.20	0.95	0.4	3.2	3.2
QFN64-S4	8.2×8.2	0.20	0.95	0.4	6.7	6.7
PLCC28-M2	11.51×11.51	0.75	2.00	1.27	8.81	8.81
QFP32-J2	7×7	0.50	1.00	0.80	7.3	7.3
QFP32-R1	7×7	0.50	1.00	0.80	7.4	7.4
QFP44-A1	10×10	0.50	1.20	0.80	10.4	10.4
QFP48-J1/R2	7×7	0.35	0.95	0.50	7.3	7.3
QFP48-P1	16×12	0.52	0.77	0.80	14.76	10.76
LQFP48-R3	7×7	0.25	1.20	0.50	7.1	7.1
QFP52-A2	10×10	0.35	2.60	0.65	10.4	10.4
LQFP52-H2/H3	10×10	0.35	1.20	0.65	10.4	10.4
QFP52-S1	10×10	0.45	1.15	0.65	10.25	10.25
QFP56-A1	10×10	0.35	1.20	0.65	10.4	10.4
QFP64-B2	14×14	0.50	1.60	0.80	14.4	14.4
QFP64-B3	14×14	0.50	1.40	0.80	14.4	14.4
QFP64-H1/K1	10×10	0.225	1.00	0.50	10.4	10.4
LQFP64-H2	10×10	0.25	1.00	0.50	10.4	10.4
QFP80-C3	20×14	0.50	2.00	0.80	20.4	14.4
QFP100-U1	20×14	0.35	1.65	0.65	20.4	14.4
LQFP144-L1	20×20	0.30	1.20	0.50	20.4	20.4

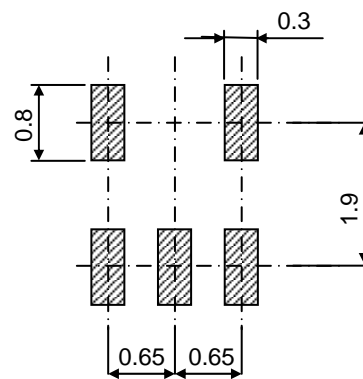
Unit : mm



## SOT-23-5 (MTP5)



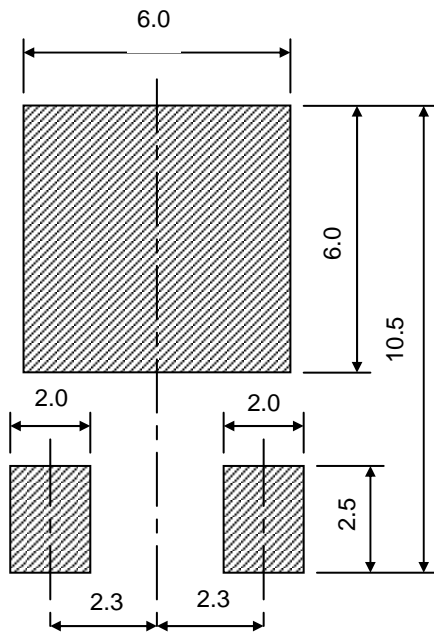
## SC-88A



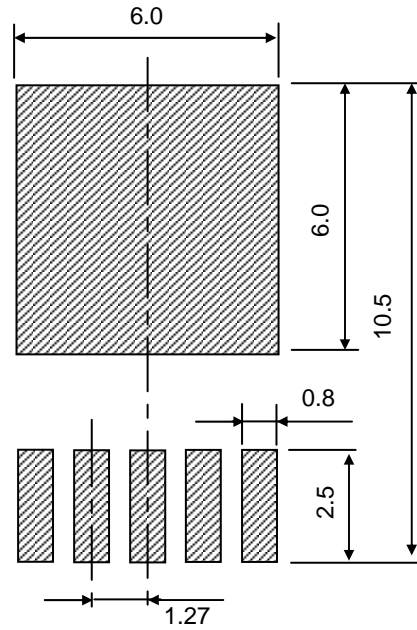
Note : These solder foot print dimensions are just examples.  
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Unit : mm

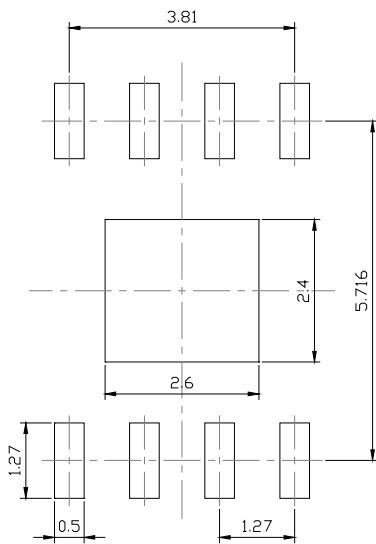
TO-252-3-L1



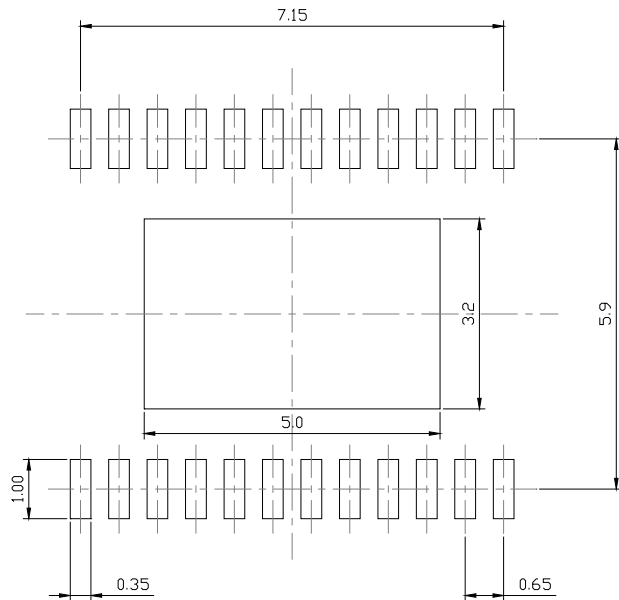
TO-252-5-L3



HSOP8



HTSSOP24-P1

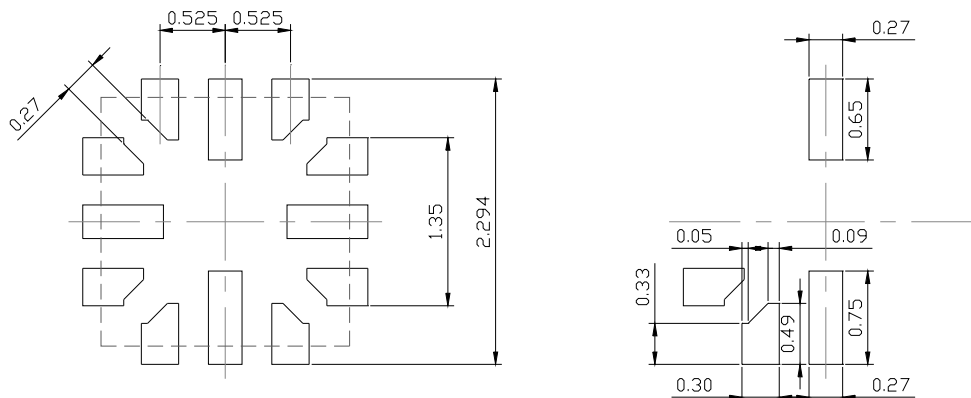


Note : These solder foot print dimensions are just examples.  
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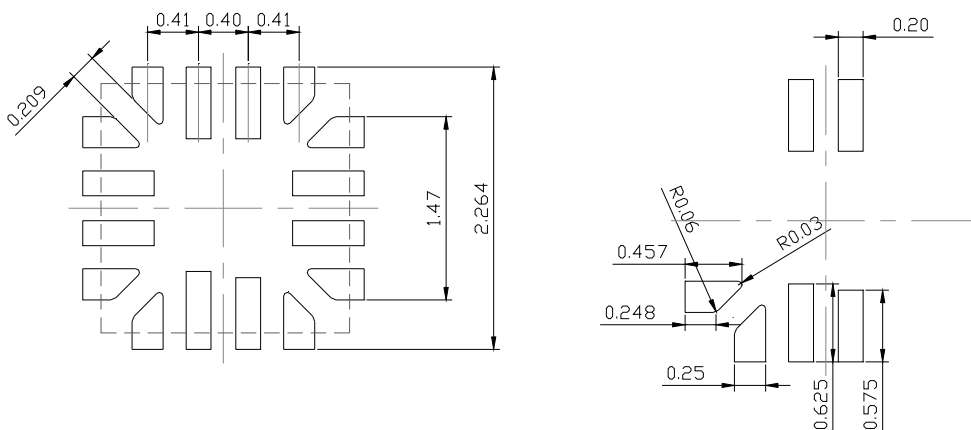
Unit : mm

# SOLDER FOOT PRINT

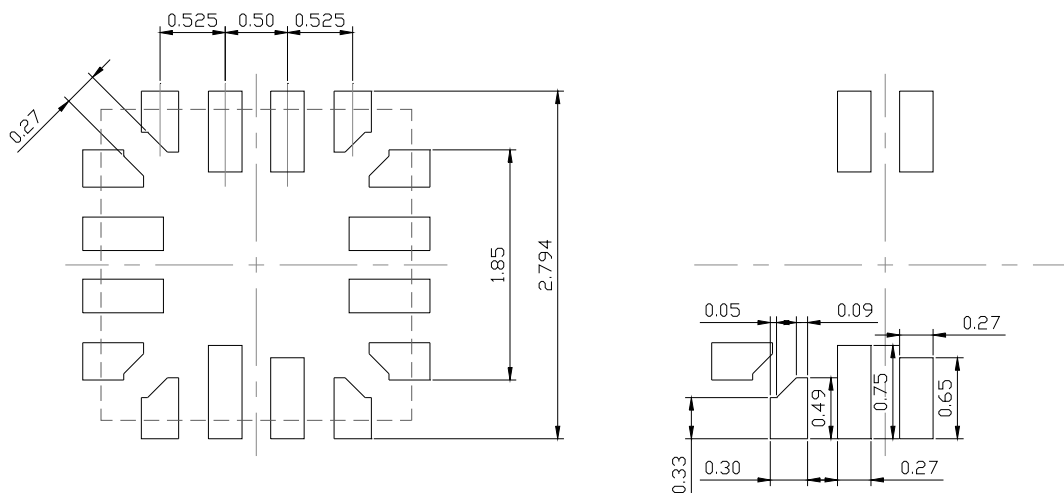
## FFP12-B1/B4/B7



## FFP16-B5



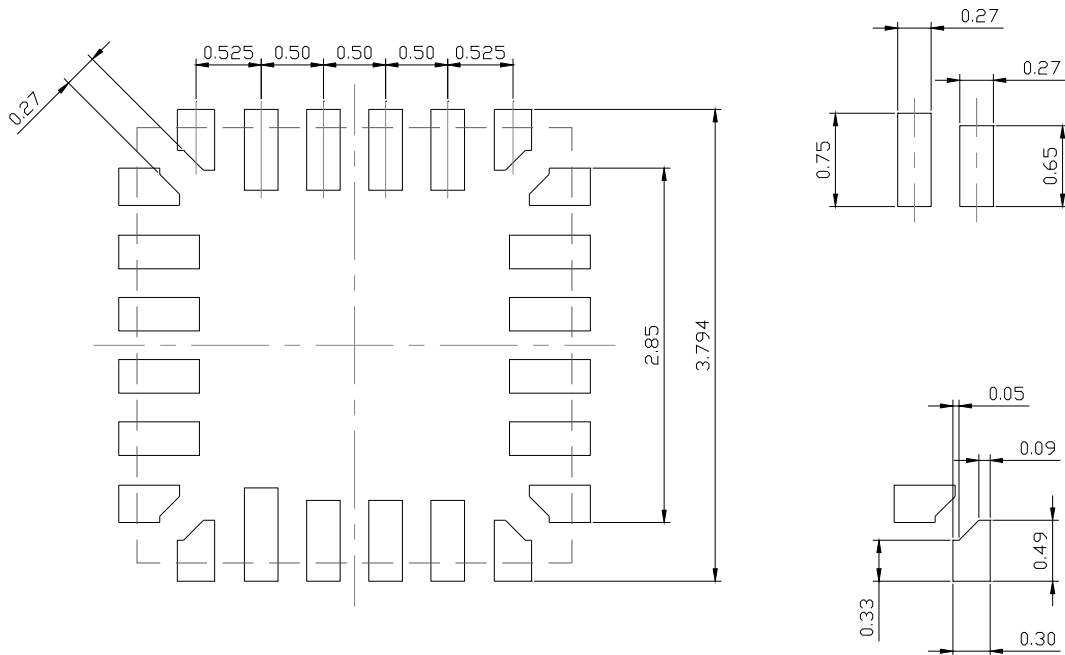
## FFP16-C1



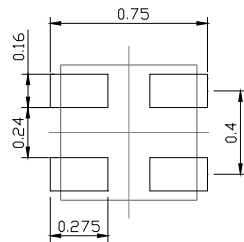
Note : These solder foot print dimensions are just examples.  
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Unit : mm

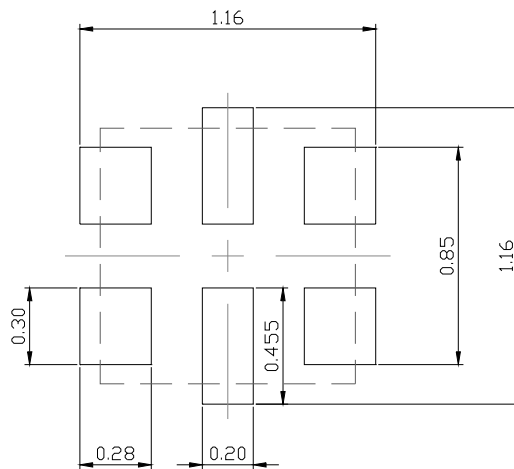
FFP24-E1



EPFFP4-X2



EPFFP6-A2

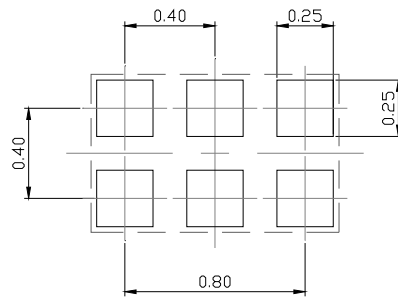


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

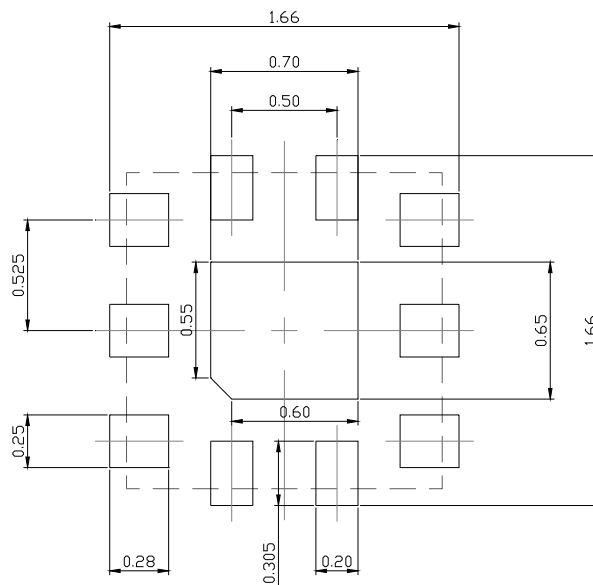
Unit : mm

# SOLDER FOOT PRINT

## EPFFP6-X2



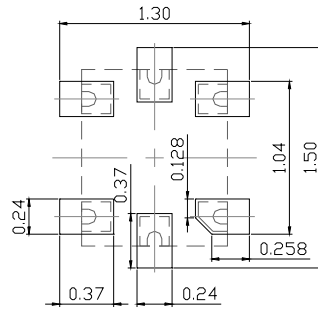
## EPFFP10-C4



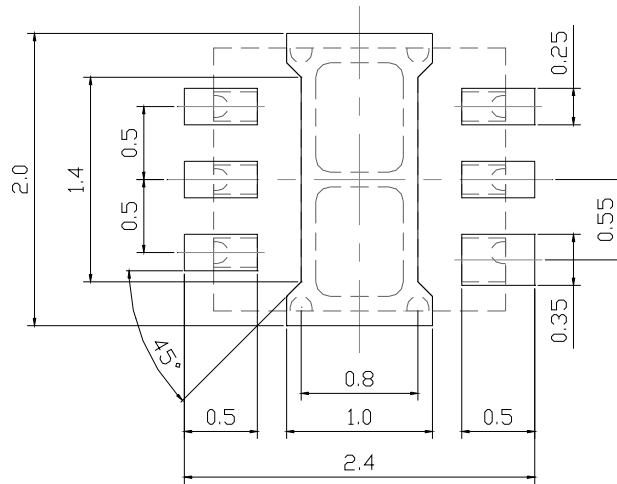
Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

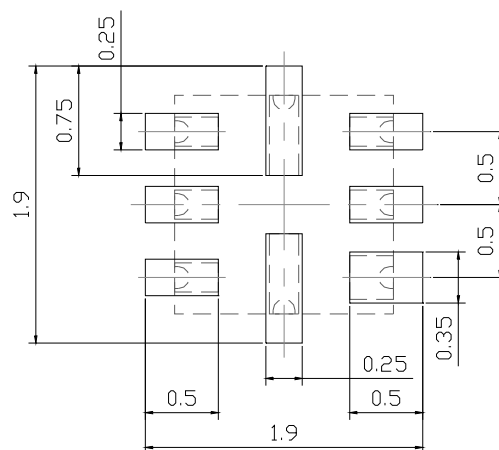
USB6-A8



USB6-D3



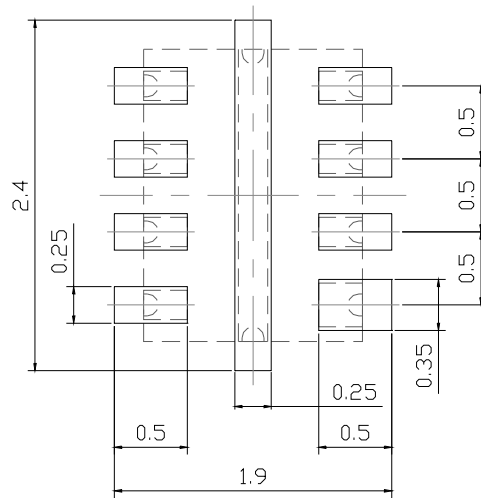
USB8-B3/B6



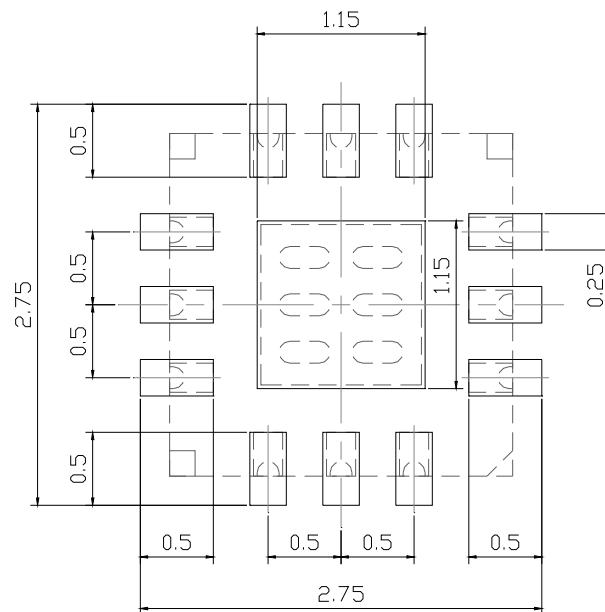
Note : These solder foot print dimensions are just examples.  
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Unit : mm

## USB10-C3



## USB12-E3

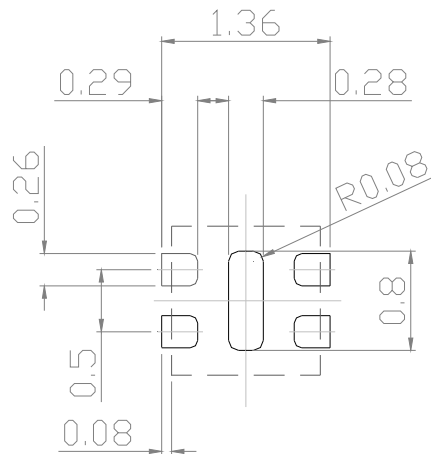


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

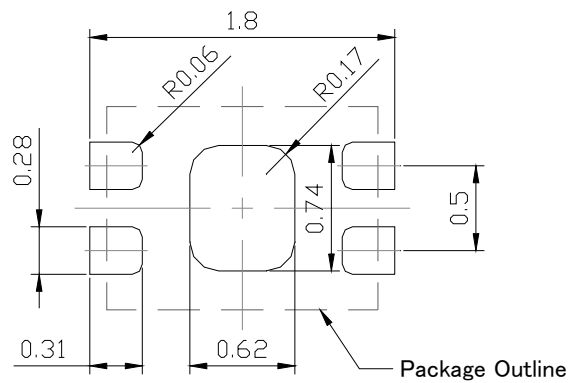
Unit : mm



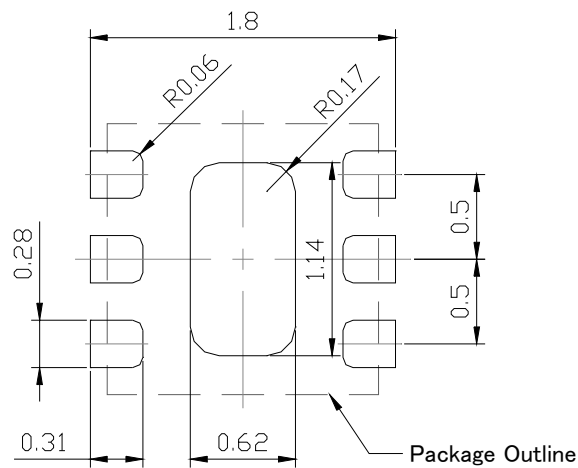
DFN4-E1(ESON4-E1)



DFN4-F1(ESON4-F1)



DFN6-G1(ESON6-G1)

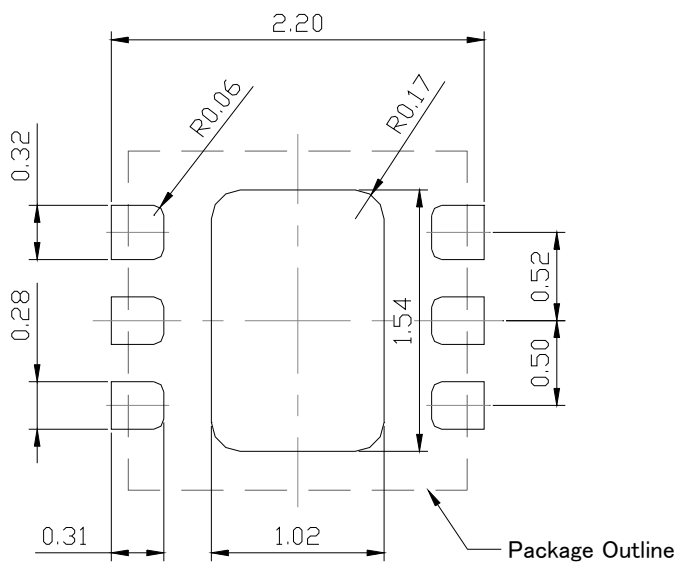


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

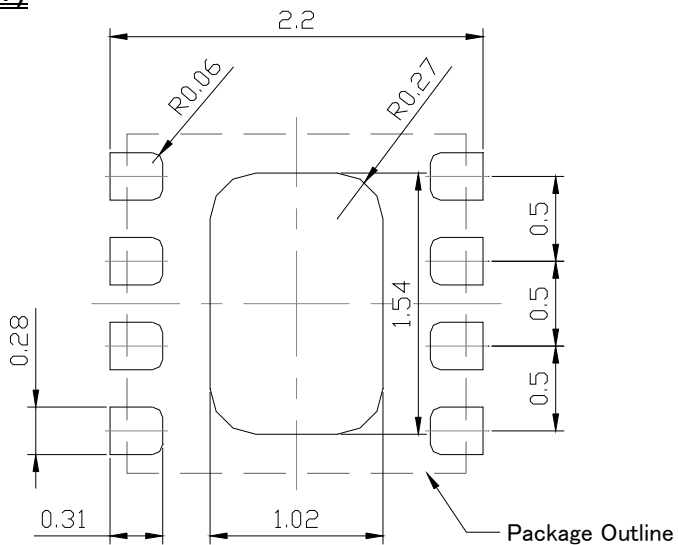
Unit : mm

# SOLDER FOOT PRINT

## DFN6-H1(ESON6-H1)



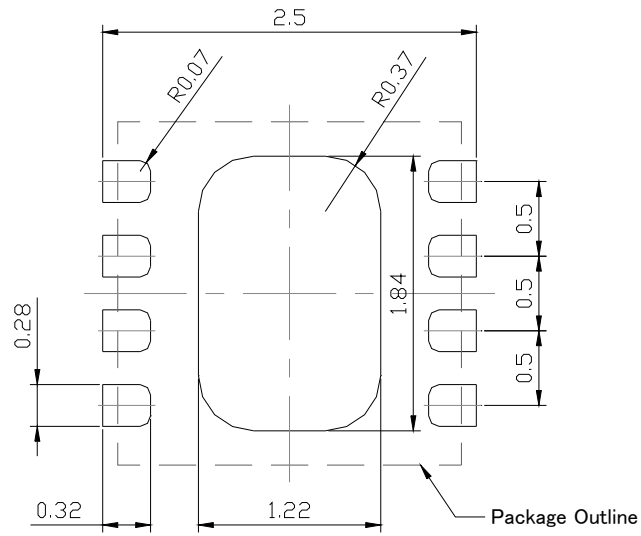
## DFN8-U1(ESON8-U1)



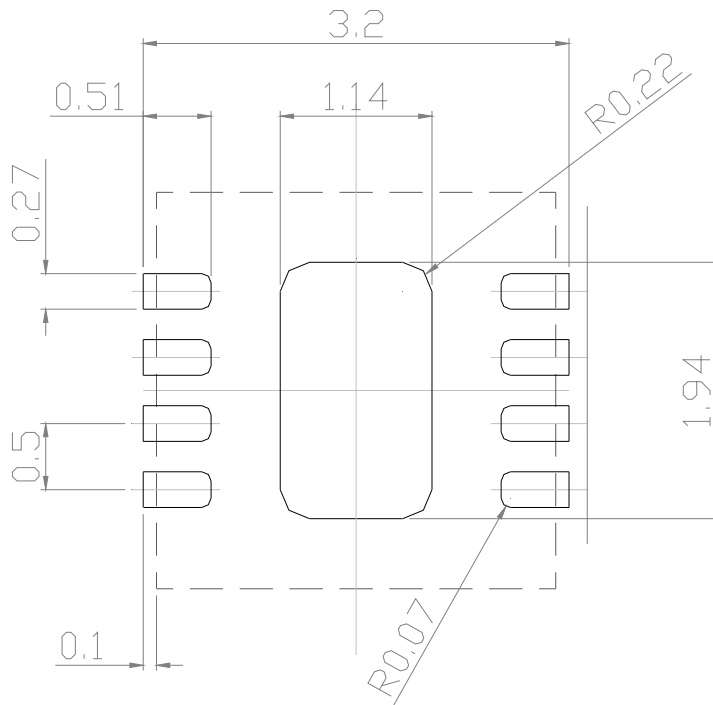
Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

DFN8-V1(ESON8-V1)



DFN8-W1(ESON8-W1)

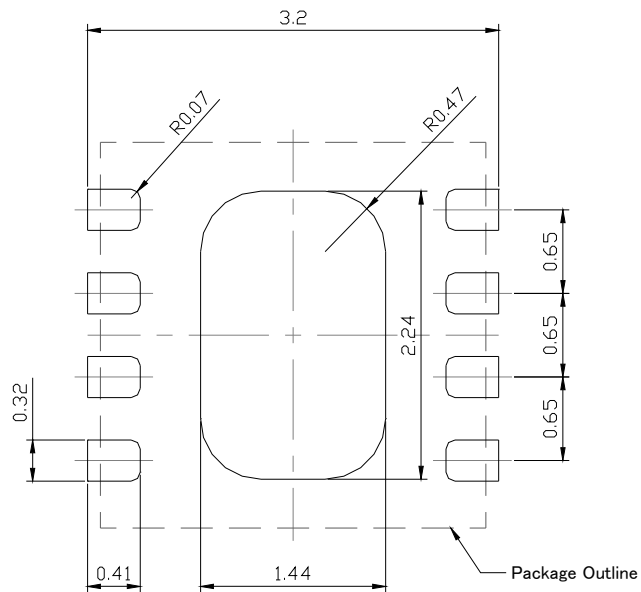


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

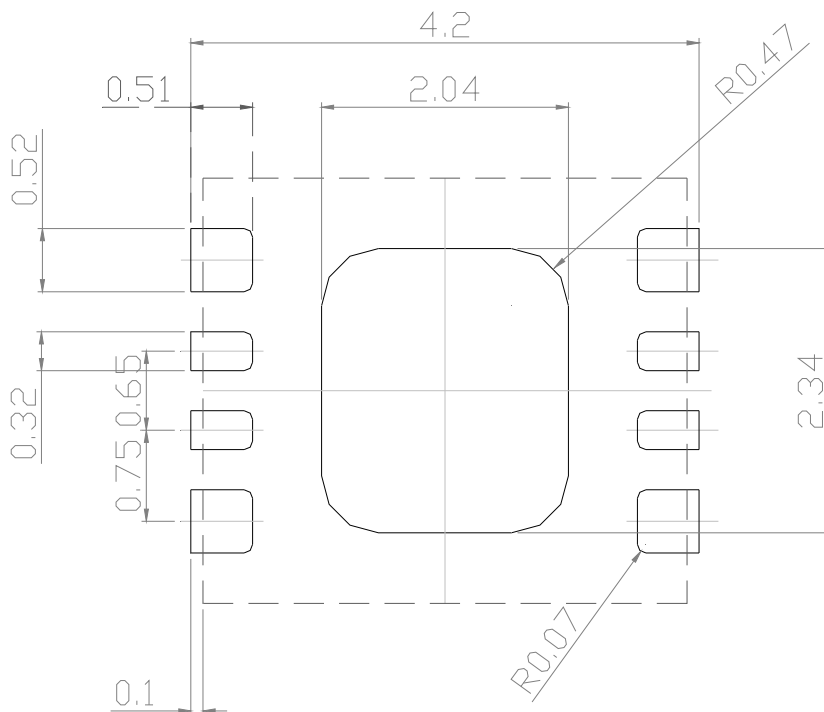
Unit : mm

# SOLDER FOOT PRINT

## DFN8-W2(ESON8-W2)



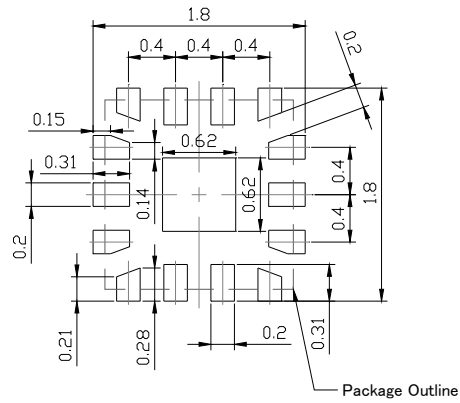
## DFN8-X7(ESON8-X7)



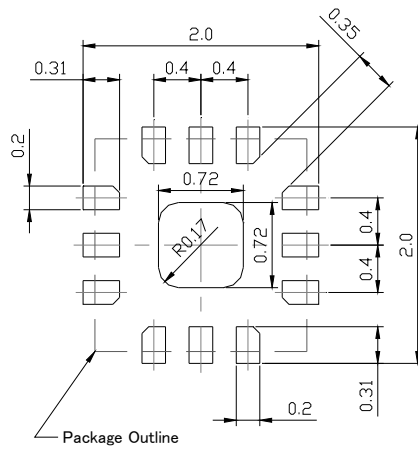
Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

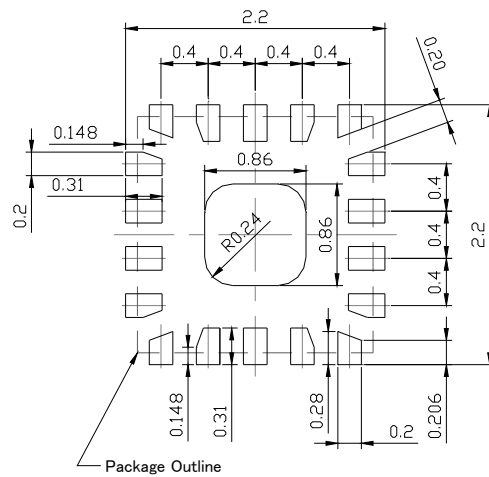
EQFN14-D7



EQFN12-E2



EQFN18-E7

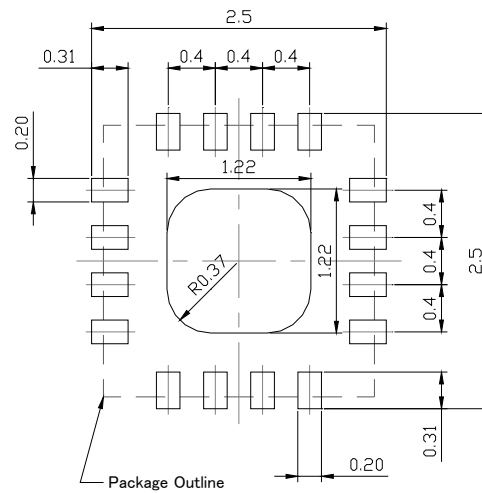


Note : These solder foot print dimensions are just examples.  
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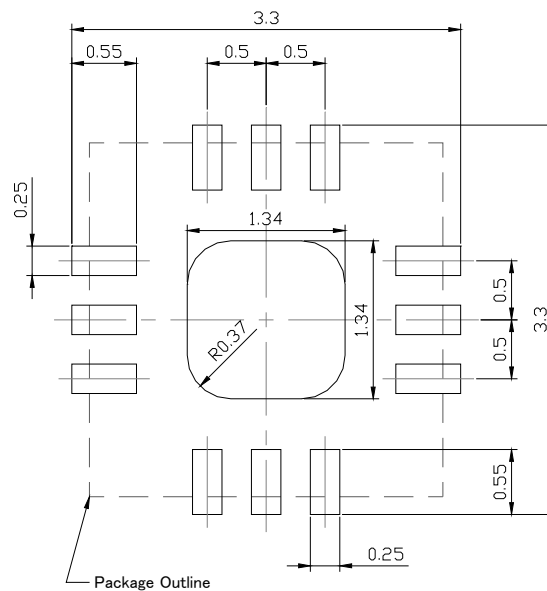
Unit : mm

# SOLDER FOOT PRINT

## EQFN16-G2



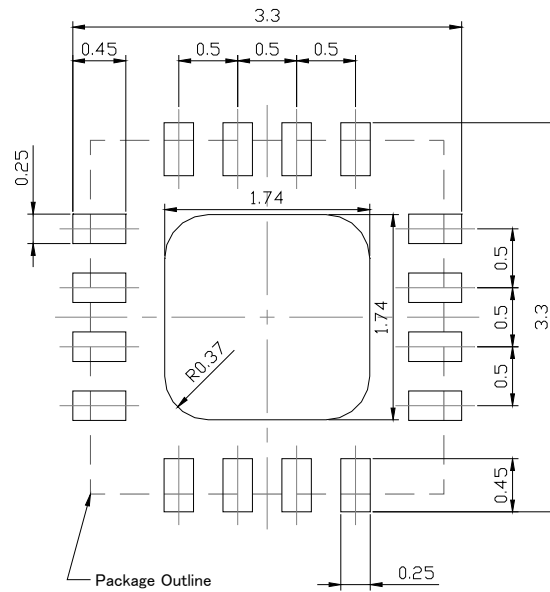
## EQFN12-JE



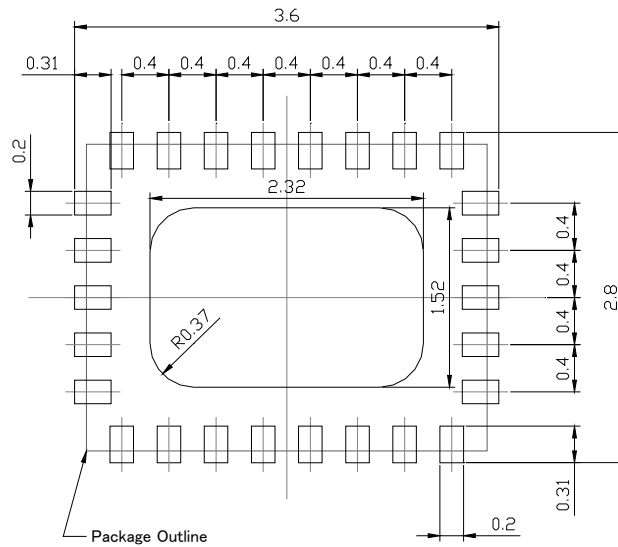
Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

EQFN16-JE



EQFN26-HH

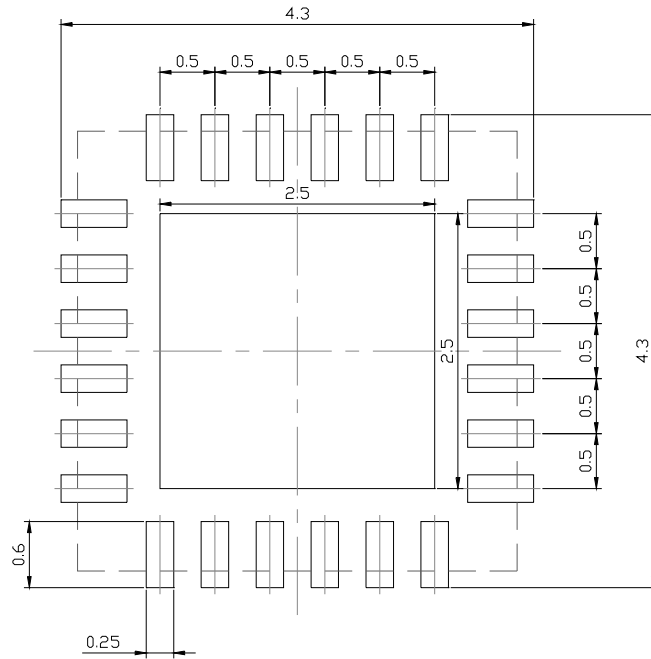


Note : These solder foot print dimensions are just examples.  
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Unit : mm

# SOLDER FOOT PRINT

## EQFN24-LK

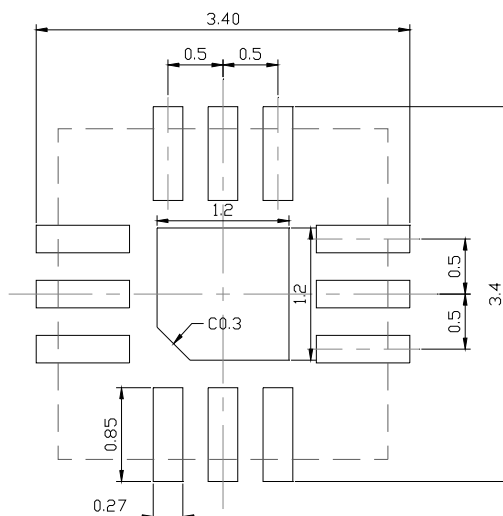


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

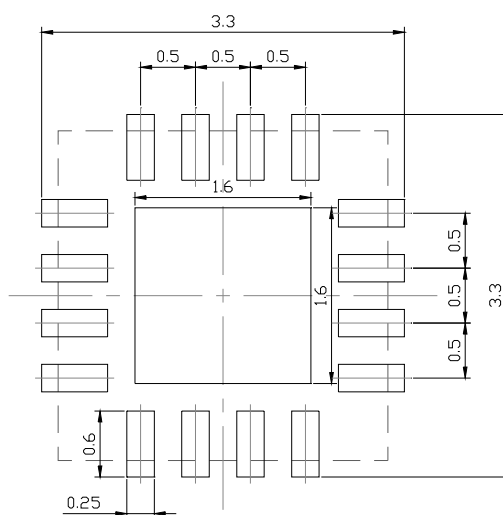
Unit : mm



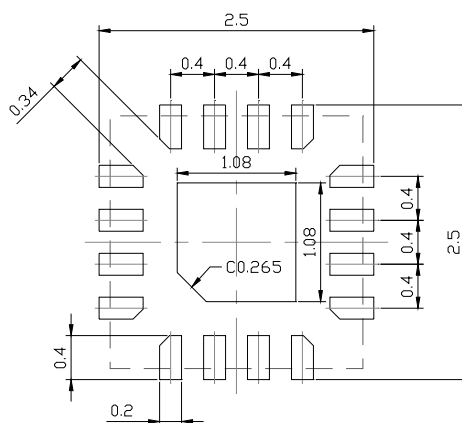
QFN12-11



QFN16-21



QFN16-44

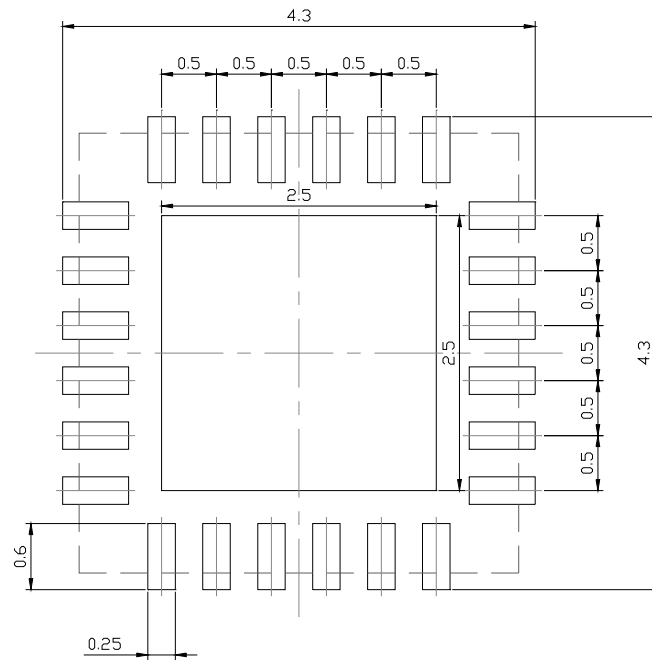


Note : These solder foot print dimensions are just examples.  
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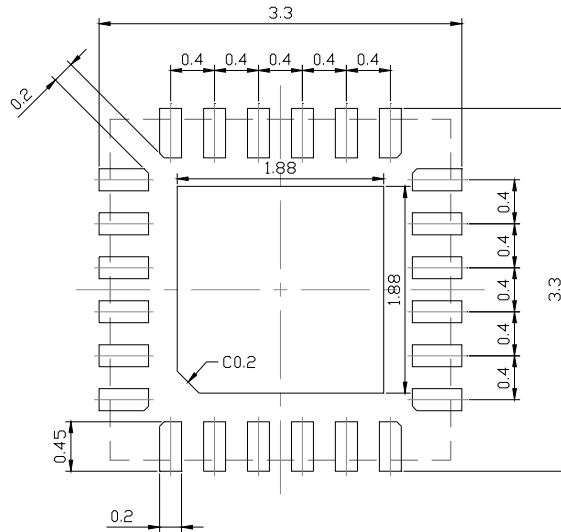
Unit : mm

# SOLDER FOOT PRINT

## QFN24-T2



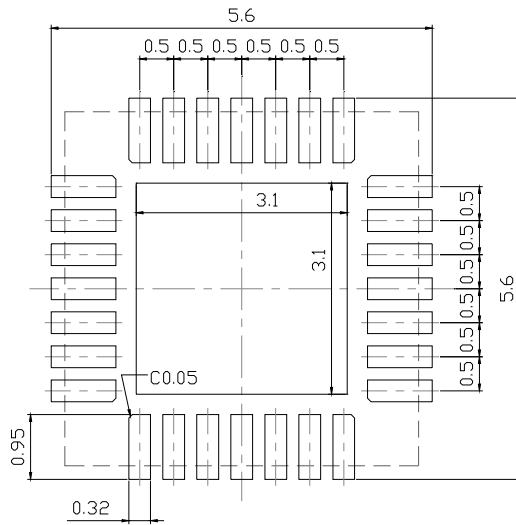
## QFN24-34



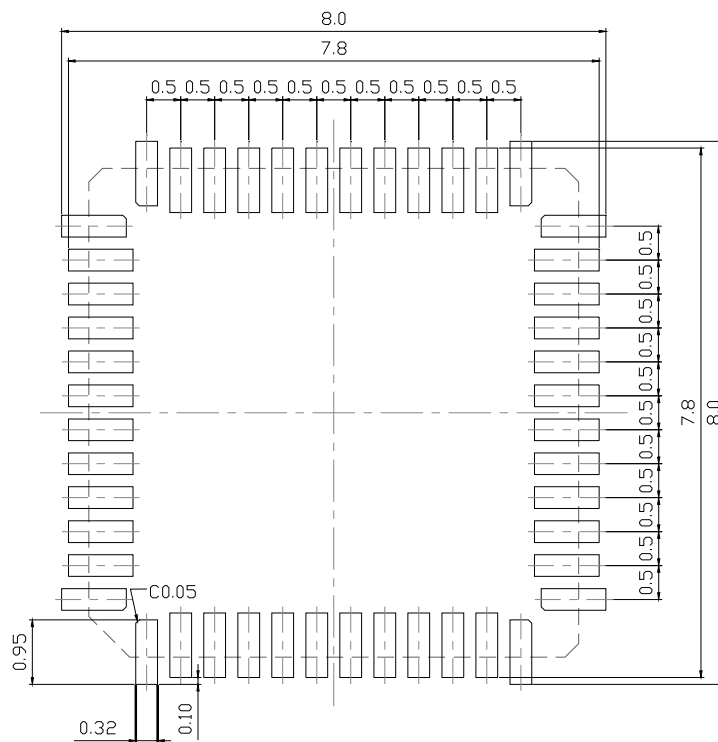
Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

QFN28-N2



QFN48-Q1

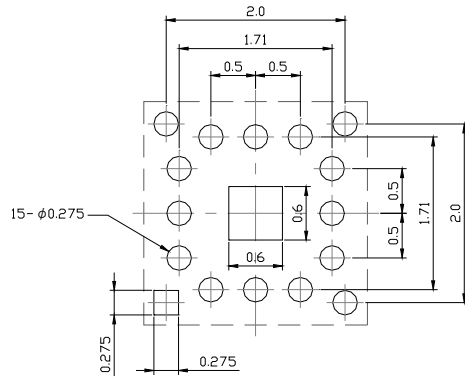


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

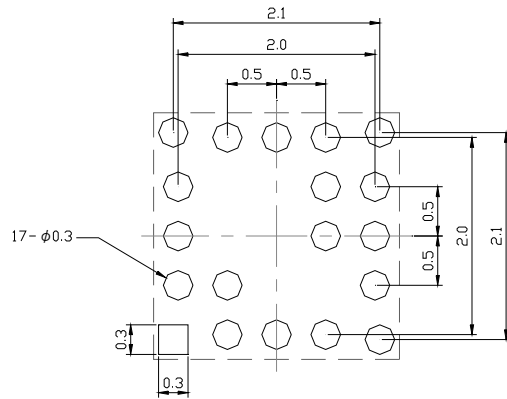
Unit : mm

# SOLDER FOOT PRINT

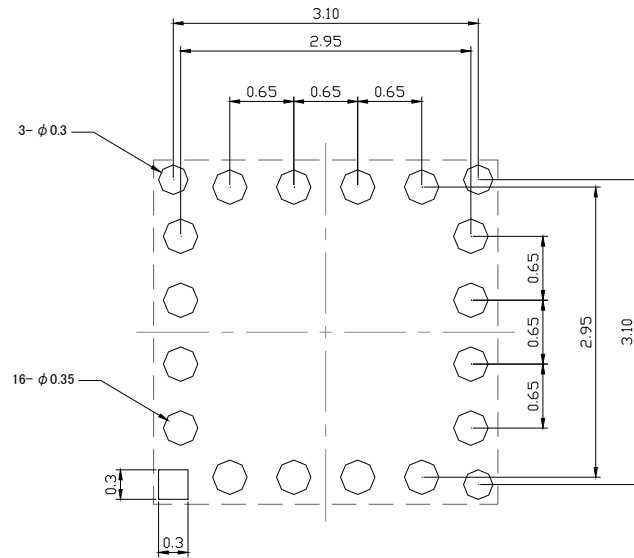
## PCSP12-C3



## PCSP14-C3



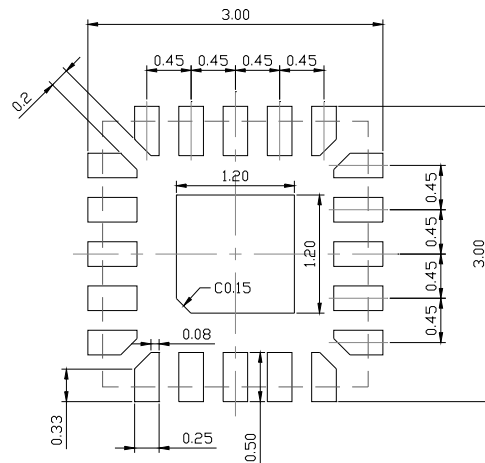
## PCSP16-E4



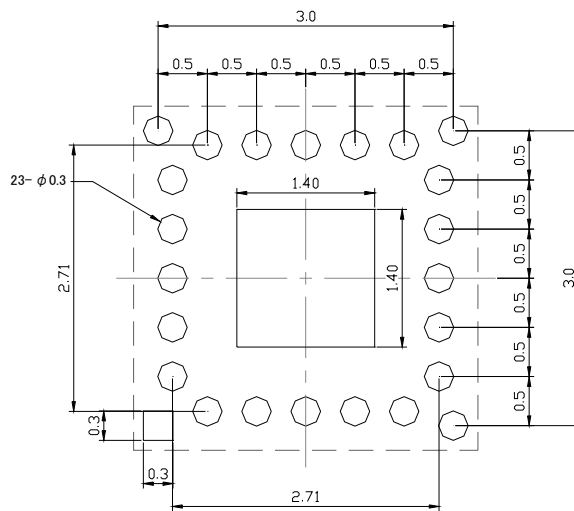
Note : These solder foot print dimensions are just examples.  
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Unit : mm

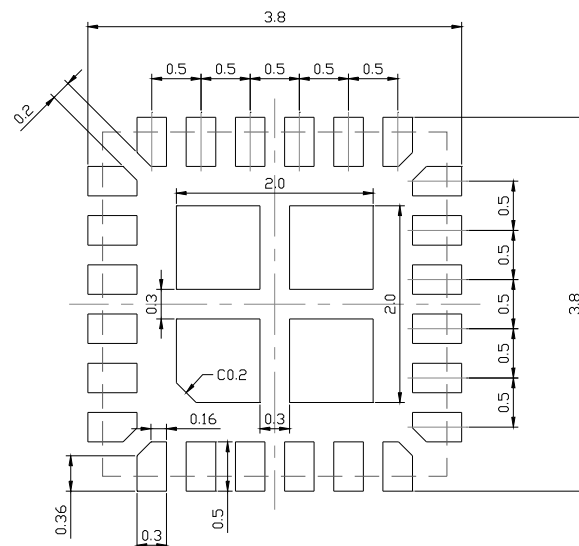
PCSP20-CC



PCSP20-E3



PCSP24-ED

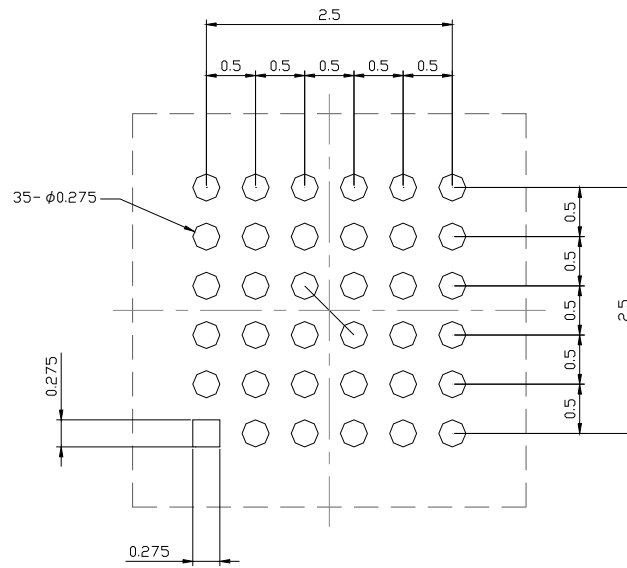


Note : These solder foot print dimensions are just examples.  
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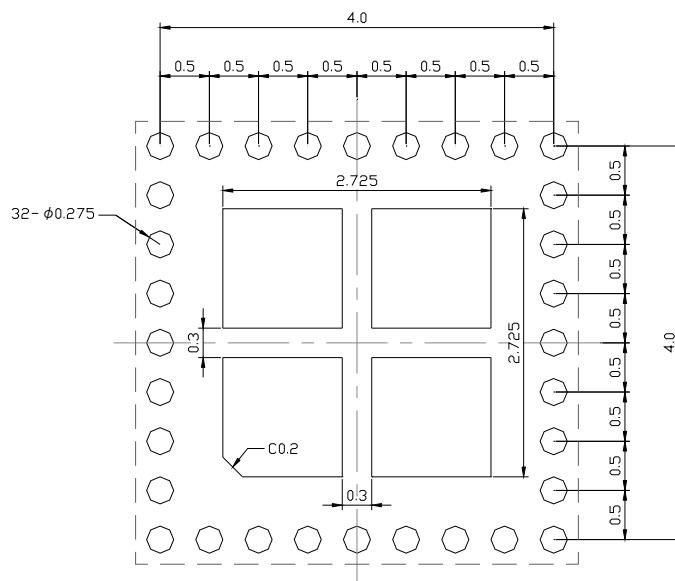
Unit : mm

# SOLDER FOOT PRINT

## PCSP32-F7



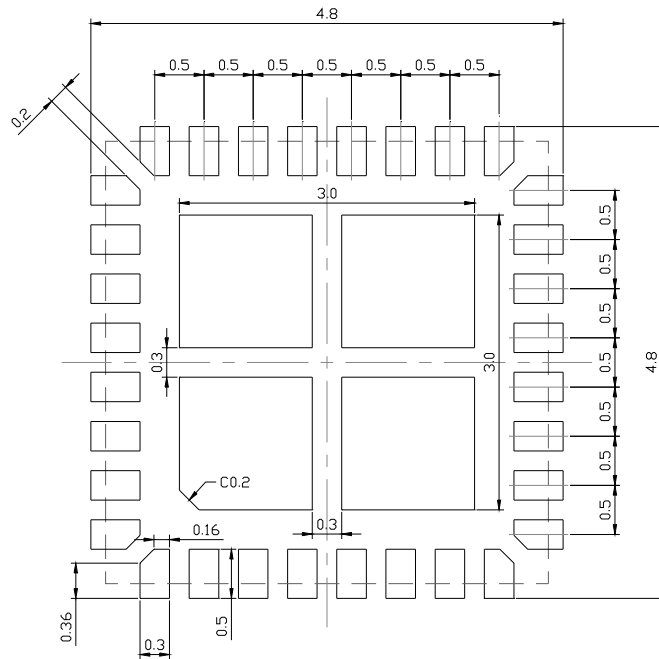
## PCSP32-G3



Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

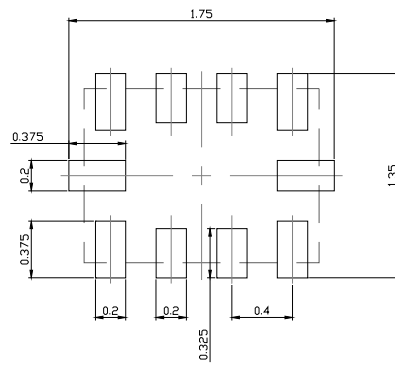
PCSP32-GD



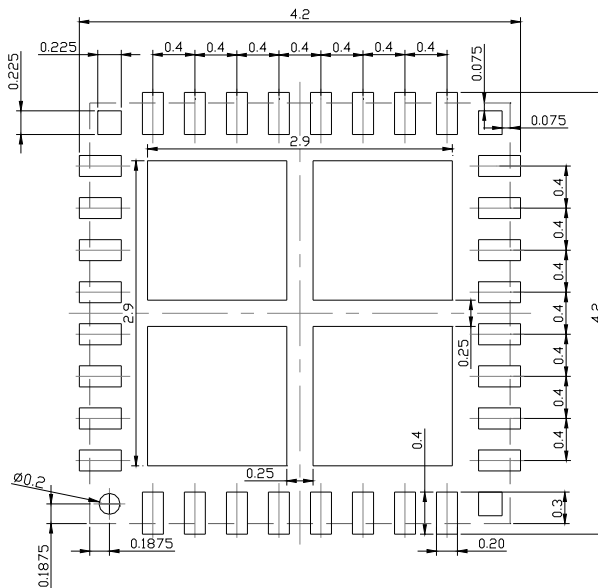
Note : These solder foot print dimensions are just examples.  
 When designing PCB, please estimate the pattern carefully.

Unit : mm

## EPCSP10-B2



## EPCSP32-L2

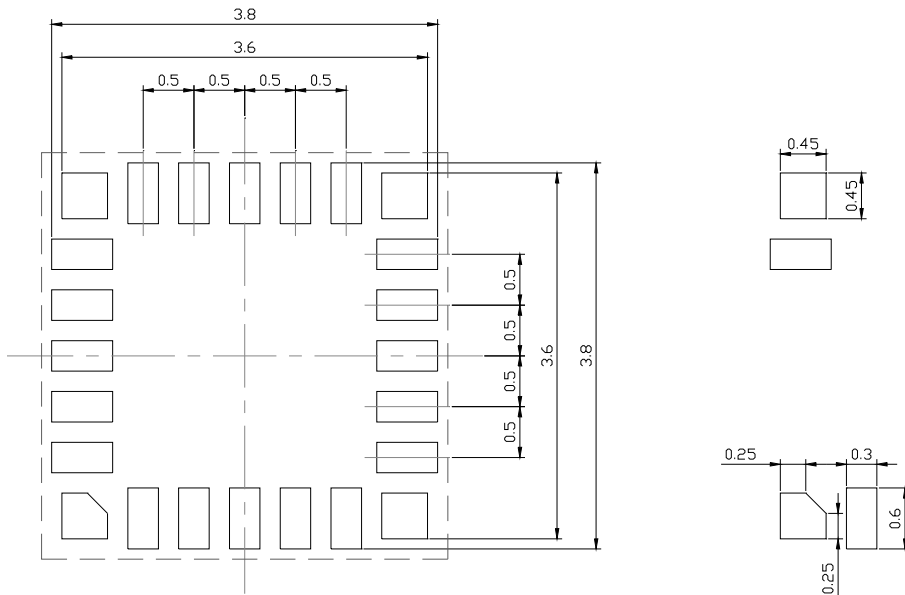


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

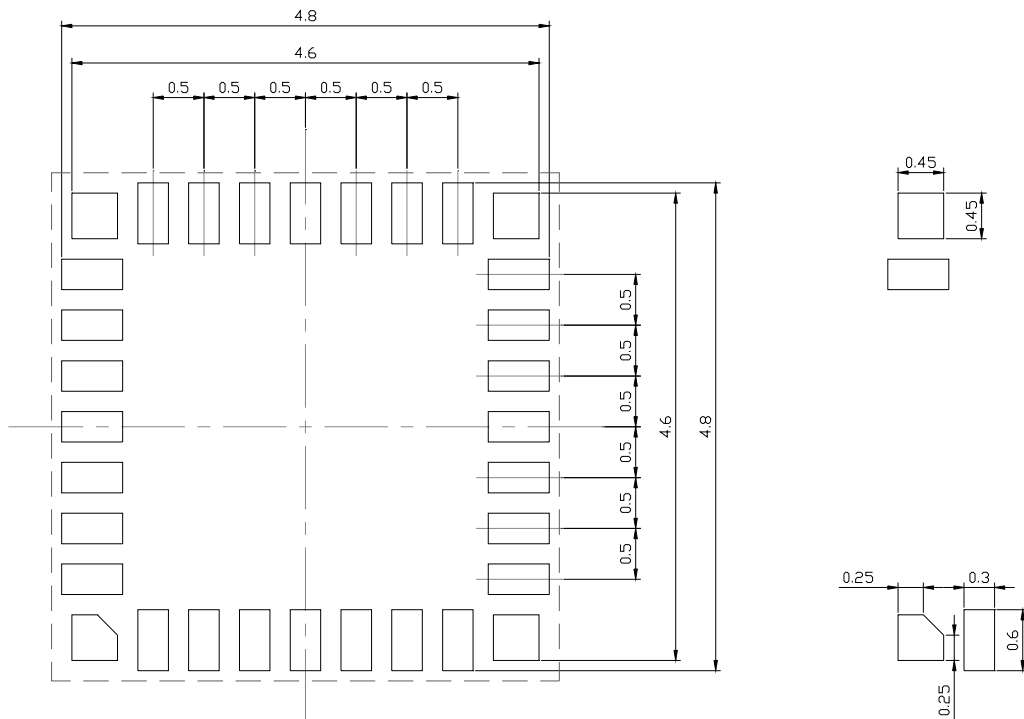
Unit : mm



BCC24-A2



BCC32-A3

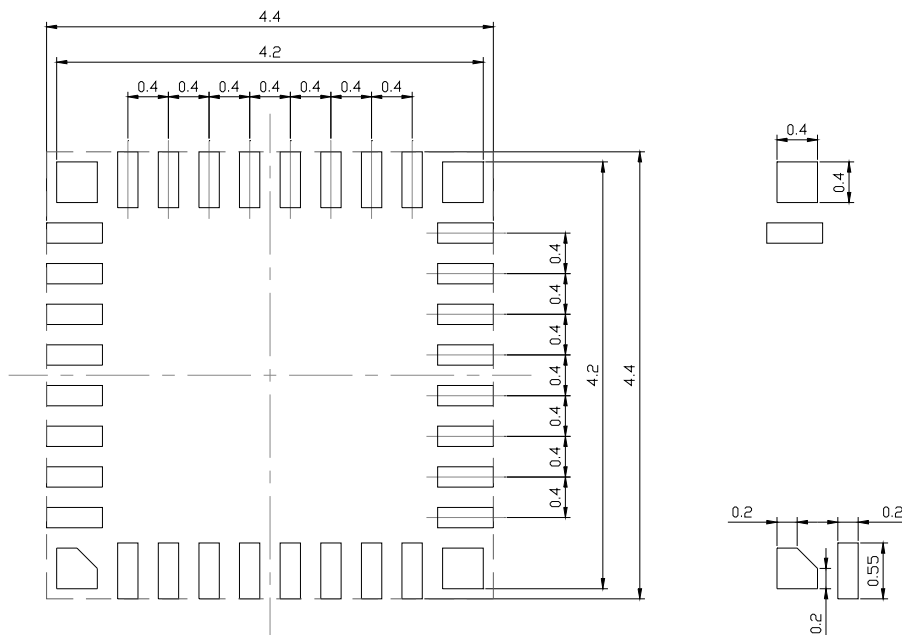


Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm

# SOLDER FOOT PRINT

## BCC36-A4



Note : These solder foot print dimensions are just examples.  
When designing PCB, please estimate the pattern carefully.

Unit : mm