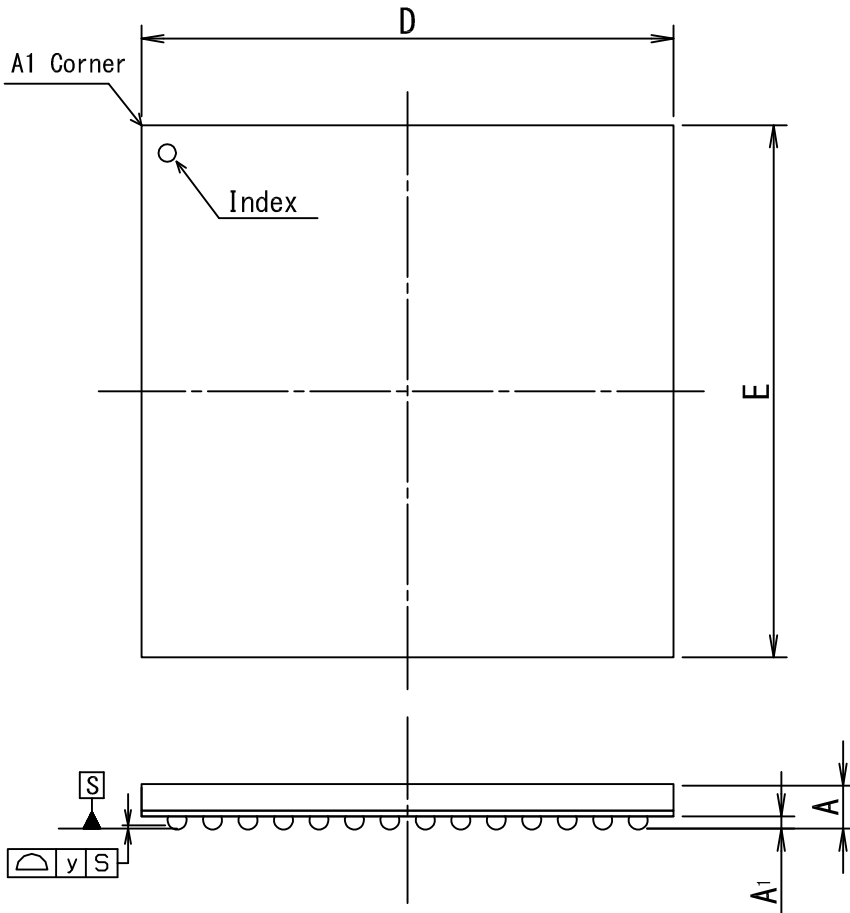
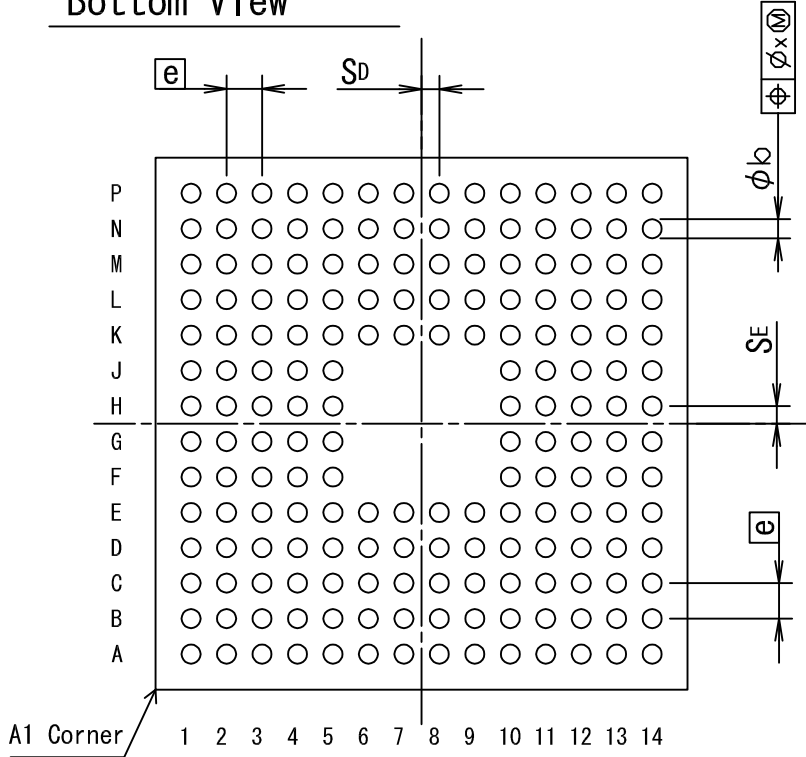


Top View



Bottom View



Symbol	Dimension in Millimeters		
	Min	Nom	Max
D	11.90	12.00	12.10
E	11.90	12.00	12.10
A	-	-	1.20
A ₁	0.25	0.30	0.35
e	-	0.80	-
b	0.38	0.43	0.48
x	-	-	0.08
y	-	-	0.10
S _D	0.30	0.40	0.50
S _E	0.30	0.40	0.50

Unit : mm

TITLE

P-TFBGA-180-1212-0.80 (PFBGA12U-180)

SEIKO EPSON CORP.