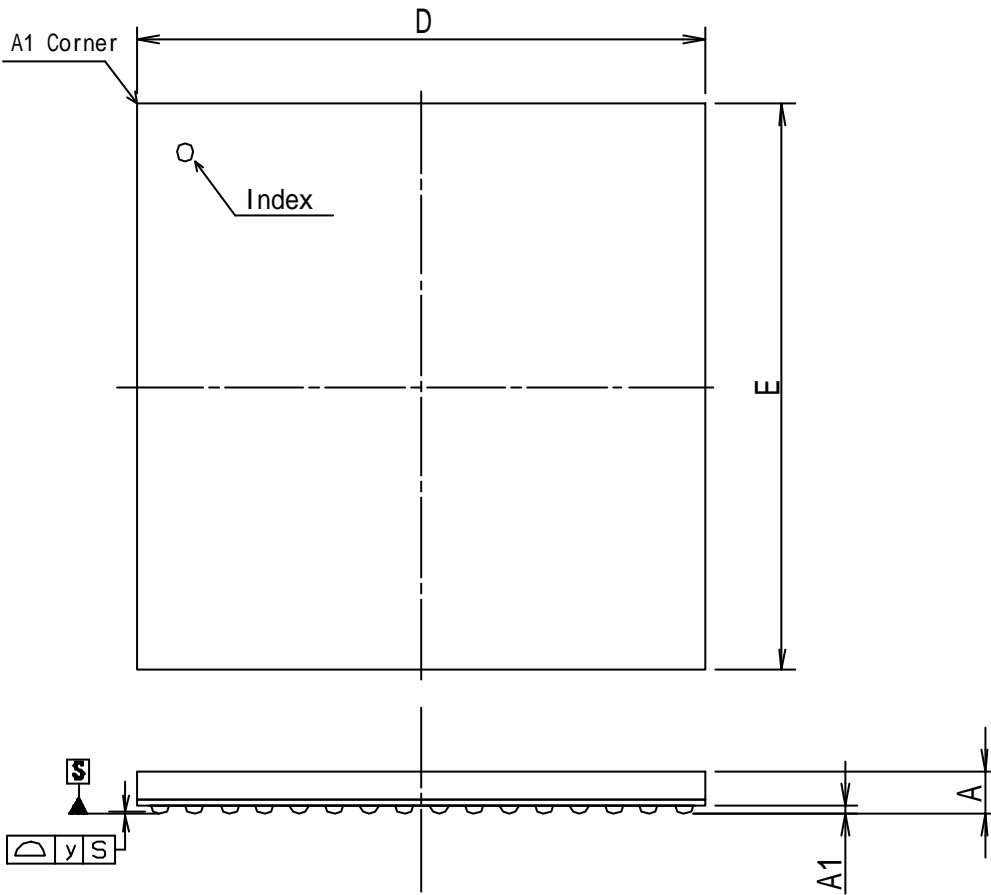
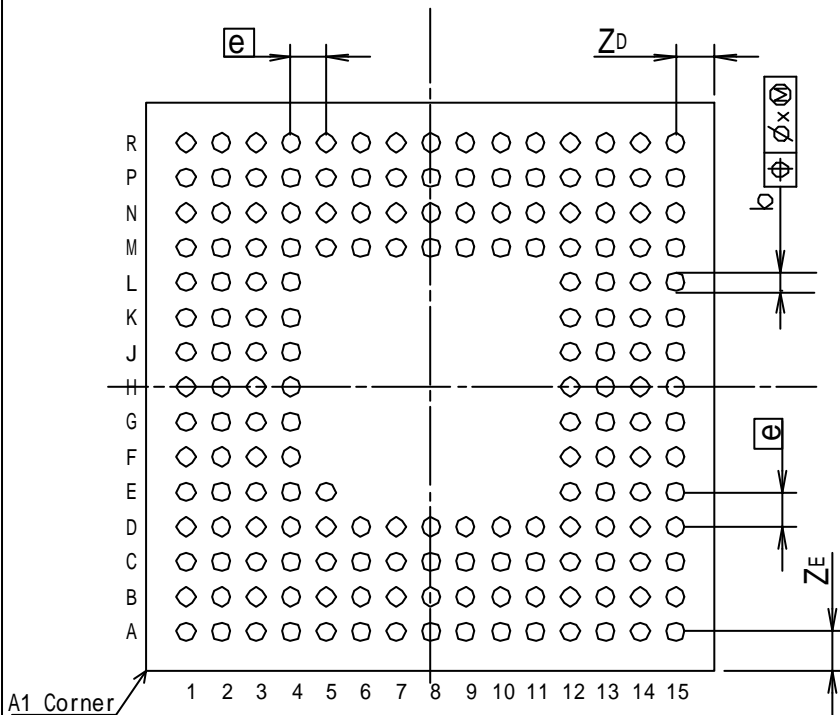


Top View



Bottom View



Symbol	Dimension in Millimeters		
	Min	Nom	Max
D	-	13	-
E	-	13	-
A	-	-	1.2
A ₁	-	0.3	-
e	-	0.8	-
b	0.38	-	0.48
x	-	-	0.08
y	-	-	0.1
Z _D	-	0.9	-
Z _E	-	0.9	-

Unit : mm

TITLE

P-TFBGA-177-1313-0.80(PFBGA13U-177)

SEIKO EPSON CORP.