

Nominal
(Specification
Document
4 layers option)

Barrel	Center of Sensor Radius (mm)	Pseudo rapidity	Quantity of Ladders	Angle (deg)	Coverage (f) (%)	Overlap (%)	Clearance (mm)	Chips Power Dissipation (W)
0	68.76/74.62	1.03/0.97	34	0	99	2.5	0.25/1.5/6.4	56.58
1	89.87/95.45	1.18/1.13	30	0	99	2.5	0.25/1.5/6.4	99.84
2	108.35/113.61	1.03/0.99	36	0	99	2.5	0.25/1.5/6.4	119.81
3	126.76/131.79	0.91/0.88	42	0	99	2.5	0.25/1.5/6.4	139.78
Total			142					416

3 layers
option

Barrel	Center of Sensor Radius (mm)	Pseudo rapidity	Quantity of Ladders	Angle (deg)	Coverage (f) (%)	Overlap (%)	Clearance (mm)	Chips Power Dissipation (W)
1	83.81/89.85	1.24/1.18	28	0	99	2.5	0.25/2/12.7	93.84
2	108.47/114.08	1.03/0.99	36	0	99	2.5	0.25/2/12.7	119.81
3	133.03/138.34	0.88/0.85	44	0	99	2.5	0.25/2/12.7	146.43
Total			108					359.42

3 layers Option
with Max Radial
Shift Out

Barrel	Center of Sensor Radius (mm)	Pseudo rapidity	Quantity of Ladders	Angle (deg)	Coverage (f) (%)	Overlap (%)	Clearance (mm)	Chips Power Dissipation (W)
1	96.16/101.96	1.12/1.08	32	0	99	2.5	0.25/2/12.7	106.50
2	120.76/126.21	0.95/0.91	40	0	99	2.5	0.25/2/12.7	133.12
3	145.28/150.49	0.82/0.79	48	0	99	2.5	0.25/2/12.7	159.74
Total			120					399.36