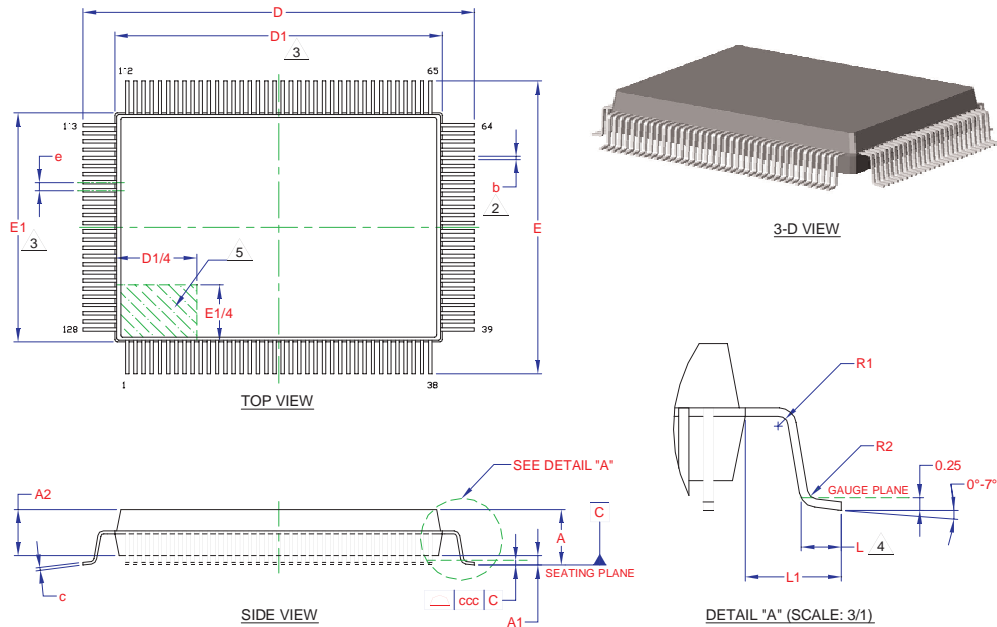


## 128 PIN QFP/QN PACKAGE OUTLINE (3.9 MM FOOTPRINT)



	Min	Nominal	Max	Remarks
A	~	~	3.40	Overall Package Height
A1	0.05	~	0.50	Standoff
A2	2.55	~	3.05	Package Body Thickness
D	23.70	23.90	24.10	"X" Span
D1	19.90	20.00	20.10	"X" Body Size
E	17.70	17.90	18.10	"Y" Span
E1	13.90	14.00	14.10	"Y" Body Size
L	0.73	0.88	1.03	Lead Foot Length
L1		1.95 REF		Lead Length
b	0.10	~	0.30	Lead Width
c	0.09	~	0.20	Lead Thickness
e		0.50 BSC		Lead Pitch
R1	0.13	~	~	Lead Shoulder Radius
R2	0.13	~	0.30	Lead Foot Radius
ccc	~	~	0.08	Coplanarity

**Notes:**

1. All dimensions are in millimeters.
2. True position spread tolerance of each lead is  $\pm 0.04\text{mm}$  at maximum material condition.
3. Dimensions "D1" and "E1" do not include mold protrusions. Maximum protrusion is 0.25mm per side.
4. Dimensions "L" is measured at the gauge plane, 0.25mm above the seating plane "C".
5. Details of pin 1 identifier are optional, but must be located within the zone indicated.
6. Provided for reference only - contact your SMSC Regional Sales Office for latest information.