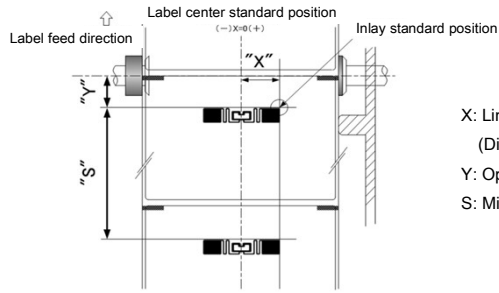


CT4-LX UHF Inlay Configuration Guide

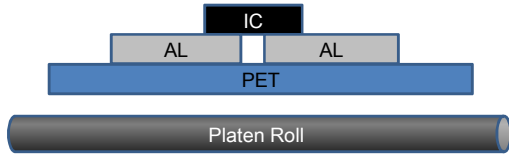
SATO recommends print speeds of 4 IPS or less for best results with RFID.
 The following recommendations have been tested successfully at SATO.
 Results may vary based on system limitations.
 Validation of functionality in the actual system is therefore recommended.

- E** Placement and Configurations valid for European (ETSI) frequency range, 865-868MHz
- F** Valid for Frequencies that fall within the FCC range, 902-928MHz

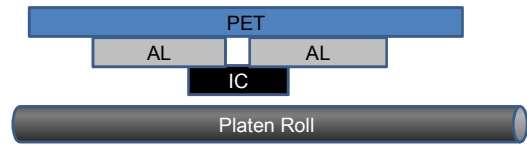


X: Liner Center to Inlay Edge
 (Direction of Travel Right Side)
 Y: Optimum Encoding Position
 S: Minimum Inlay Separation

IC Facing UP



IC Facing Below



No	Inlay Manufacturer	Inlay [IC Chip]	Feed Orientation	IC Direction	Region	Position(mm)			Power (dBm)		Antenna Selection	Antenna Position (mm)	
						X	Y	S	Write	Read		X	Y
1	SATO	ST7015R6-RE01 [Impinj MonzaR6]		IC Facing UP	E	32-38	4-6	30	13	13	Front	28	0
						32-38	17-21	35	15	15	Normal	14	5
					F	32-38	4-6	35	13	13	Front	28	0
						32-38	16-21	35	15	15	Normal	14	5
2	SATO	ST7015R6-RE02 [Impinj MonzaR6]		IC Facing UP	E	32-36	3-5	30	18	18	Front	28	0
						32-38	22-27	37	20	20	Normal	14	5
					F	32-38	13-16	38	20	20	Front	28	0
						32-38	23-38	35	23	23	Normal	14	5
3	SATO	ST5030R6-MK01 [Impinj MonzaR6]		IC Facing UP	E	22-28	5-8	48	22	22	Front	28	0
						22-28	6-12	35	17	17	Normal	14	5
					F	22-28	5-10	35	17	13	Front	28	0
						22-28	6-12	35	15	15	Normal	14	5
4	SATO	ST9006R6-MK01 [Impinj MonzaR6]		IC Facing UP	E	42-48	19-22	41	24	24	Front	28	0
						42-48	27-32	35	20	20	Normal	14	5
					F	42-48	19-23	30	11	11	Front	28	0
						42-48	22-25	30	21	21	Normal	14	5
5	SATO	ST3310R6-P-MK01 [Impinj MonzaR6-P]		IC Facing UP	E	13.5-19.5	10-12	30	20	20	Front	28	0
						13.5-19.5	24-26	31	20	20	Normal	14	5
					F	13.5-19.5	20-22	38	24	24	Front	28	0
						15.5-19.5	24-26	28	23	23	Normal	14	5
6	SATO	ST2509R6-MK01 [Impinj MonzaR6]		IC Facing UP	E	10-15	10-13	28	18	18	Front	28	0
						10-15	23-26	30	17	17	Normal	14	5
					F	10-15	10-12	25	11	11	Front	28	0
						10-15	23-26	30	15	15	Normal	14	5
7	SATO	ST7010M4QT-MK01 [Impinj Monza4QT]		IC Facing UP	E	32-38	10-12	30	24	24	Front	28	0
						32-38	35-38	28	24	24	Normal	14	5
					F	32-38	10-12	39	24	24	Front	28	0
						32-38	28-31	21	24	24	Normal	14	5
8	SATO	ST3028R6-RE01 [Impinj MonzaR6]		IC Facing UP	E	11-17	20-23	52	21	21	Front	28	0
						11-17	17-20	60	20	20	Normal	14	5
					F	11-17	21-24	68	21	21	Front	28	0
						16-22	18-21	50	23	23	Normal	14	5
9	SATO	ST6915R6P-MK05 [Impinj MonzaR6-P]		IC Facing Below	E	9.5-15.5	3-6	112	21	18	Front	28	0
						-0.5-5.5	4-9	84	20	18	Normal	14	5
					F	4.5-10.5	18-21	110	23	19	Front	28	0
						-0.5-5.5	4-8	74	20	20	Normal	14	5

No	Inlay Manufacturer	Inlay [IC Chip]	Feed Orientation	IC Direction	Region	Position(mm)			Power (dBm)		Antenna Selection	Antenna Position (mm)	
						X	Y	S	Write	Read		X	Y
10	SATO	ST5730R6-RE01 [Impinj MonzaR6]		IC Facing UP	E	12-18	20-23	82	24	24	Front	28	0
						12-18	9-13	102	18	18	Normal	14	5
					F	12-18	20-23	108	24	23	Front	28	0
						12-18	8-12	107	22	19	Normal	14	5
11	SATO	ST9020R6-MK01 [Impinj MonzaR6]		IC Facing UP	E	42-48	3-6	35	15	15	Front	28	0
						42-48	28-32	38	20	20	Normal	14	5
					F	42-48	12-15	40	17	17	Front	28	0
						42-48	24-27	35	19	19	Normal	14	5
12	SATO	ST7545R6-FZ01 [Impinj MonzaR6]		IC Facing UP	E	-	-	-	-	-	Front	-	-
						19.5-25.5	5-14	80	24	20	Normal	14	5
					F	19.5-25.5	20-24	86	24	21	Front	28	0
						19.5-25.5	4-7	80	22	17	Normal	14	5
13	SATO	ST4015R6-RE01 [Impinj MonzaR6]		IC Facing Below	E	17-23	6-8	30	24	24	Front	28	0
						17-23	19-22	30	18	18	Normal	14	5
					F	17-23	6-8	42	22	22	Front	28	0
						17-23	19-22	28	18	18	Normal	14	5
14	SATO	ST3318U8-MK01 "Tab-U8" [NXP Ucode8]		IC Facing UP	E	-	-	-	-	-	Front	-	-
						-	-	-	-	-	Normal	-	-
					F	13.5-19.5	18-20	40	14	14	Front	28	0
						13.5-19.5	20-23	34	24	24	Normal	14	5
15	SMARTRAC	Dogbone M4QT [Impinj Monza4QT]		IC Facing UP	E	44.5-50.5	9-11	53	24	24	Front	28	0
						39.5-45.5	24-28	51	17	17	Normal	14	5
					F	39.5-45.5	10-13	62	24	22	Front	28	0
						39.5-45.5	15-18	51	17	17	Normal	14	5
16	SMARTRAC	midas Flag Tag [Impinj MonzaR6-P]		IC Facing UP	E	32-38	3-6	36	24	22	Front	28	0
						27-33	19-24	25	18	18	Normal	14	5
					F	32-38	3-6	37	24	22	Front	28	0
						27-33	19-24	24	16	16	Normal	14	5
17	SMARTRAC	MiniWeb ETSI Paper Tag [Impinj MonzaR6-P]		IC Facing UP	E	19.5-25.5	6-9	31	20	20	Front	28	0
						19.5-25.5	20-24	38	20	20	Normal	14	5
					F	19.5-25.5	7-9	31	16	16	Front	28	0
						19.5-25.5	20-24	30	17	17	Normal	14	5
18	SMARTRAC	ShortDipole Wet Inlay [Impinj MonzaR6-P]		IC Facing UP	E	45.5-51.5	7-9	30	20	20	Front	28	0
						45.5-51.5	22-26	29	20	20	Normal	14	5
					F	45.5-51.5	8-10	27	20	20	Front	28	0
						45.5-51.5	20-24	28	19	19	Normal	14	5
19	SMARTRAC	DogBone Wet Inlay [NXP Ucode8]		IC Facing UP	E	50.5-54.5	14-16	58	23	23	Front	28	0
						45.5-51.5	29-34	38	23	18	Normal	14	5
					F	45.5-51.5	13-17	50	18	15	Front	28	0
						45.5-51.5	26-30	51	22	22	Normal	14	5
20	SMARTRAC	DogBone Paper Tag [Impinj MonzaR6-P]		IC Facing UP	E	45.5-51.5	4-7	55	22	22	Front	28	0
						45.5-51.5	24-29	49	18	18	Normal	14	5
					F	45.5-51.5	9-13	55	18	18	Front	28	0
						45.5-51.5	14-18	51	20	20	Normal	14	5
21	SMARTRAC	Web Paper Tag [NXP Ucode7]		IC Facing UP	E	24-30	8-10	38	20	20	Front	28	0
						24-30	9-13	39	15	15	Normal	14	5
					F	24-30	9-13	46	19	19	Front	28	0
						24-30	10-14	40	18	18	Normal	14	5
22	SMARTRAC	Accessory Tag Wet Inlay [Impinj MonzaR6-P]		IC Facing Below	E	13.5-19.5	5-9	29	17	17	Front	28	0
						13.5-19.5	20-25	26	20	20	Normal	14	5
					F	13.5-19.5	5-9	31	15	15	Front	28	0
						13.5-19.5	18-23	23	13	13	Normal	14	5

No	Inlay Manufacturer	Inlay [IC Chip]	Feed Orientation	IC Direction	Region	Position(mm)			Power (dBm)		Antenna Selection	Antenna Position (mm)	
						X	Y	S	Write	Read		X	Y
23	Alien Technology	ALN-9654 "G Tag" [Alien Higgs3]		IC Facing UP	E	43.5-49.5	4-7	47	23	18	Front	28	0
						43.5-49.5	19-22	37	23	20	Normal	14	5
					F	43.5-49.5	5-8	47	23	20	Front	28	0
						43.5-49.5	18-21	44	24	20	Normal	14	5
24	Alien Technology	ALN-9662 "Short" [Alien Higgs3]		IC Facing Below	E	32-38	5-7	33	20	20	Front	28	0
						32-38	18-21	33	24	20	Normal	14	5
					F	32-38	4-6	33	20	20	Front	28	0
						32-38	18-21	22	24	17	Normal	14	5
25	Alien Technology	ALN-9710 "Squig" [Alien Higgs4]		IC Facing UP	E	19.25-25.25	9-11	28	23	23	Front	28	0
						19.25-25.25	22-26	19	23	23	Normal	14	5
					F	19.25-25.25	9-11	30	20	20	Front	28	0
						19.25-25.25	22-25	22	21	21	Normal	14	5
26	Alien Technology	ALN-9728-90 "Garment Tag" [Alien Higgs4]		IC Facing UP	E	12-18	18-22	85	24	20	Front	28	0
						12-18	6-8	75	24	24	Normal	14	5
					F	12-18	19-23	75	24	18	Front	28	0
						12-18	6-8	75	24	24	Normal	14	5
27	Alien Technology	ALN-9740 "Squiggle" [Alien Higgs4]		IC Facing UP	E	47-49	10-12	25	24	18	Front	28	0
						45-49	24-26	25	22	19	Normal	14	5
					F	45-49	10-12	25	23	15	Front	28	0
						45-49	24-27	25	22	20	Normal	14	5
28	TAGEOS	EOS-241 [NXP Ucode8]		IC Facing Below	E	19.5-25.5	4-9	27	20	16	Front	28	0
						19.5-25.5	19-23	22	23	20	Normal	14	5
					F	19.5-25.5	4-8	31	16	20	Front	28	0
						19.5-25.5	18-22	22	24	20	Normal	14	5
29	TAGEOS	EOS-300 [Impinj MonzaR6-P]		IC Facing UP	E	24-30	5-8	39	24	24	Front	28	0
						24-30	7-10	39	24	22	Normal	14	5
					F	24-30	6-9	40	24	24	Front	28	0
						24-30	5-8	40	24	22	Normal	14	5
30	TAGEOS	EOS-400 [Impinj MonzaR6-P]		IC Facing UP	E	34-40	3-6	29	21	18	Front	28	0
						34-40	18-23	36	18	18	Normal	14	5
					F	34-40	3-6	38	21	18	Front	28	0
						34-40	15-19	37	21	18	Normal	14	5
31	TAGEOS	EOS-420 [Impinj MonzaR6]		IC Facing UP	E	32-38	5-9	40	20	20	Front	28	0
						32-38	20-23	31	21	21	Normal	14	5
					F	32-38	5-8	62	16	16	Front	28	0
						32-38	19-23	30	21	21	Normal	14	5
32	TAGEOS	EOS-500 [Impinj MonzaR6]		IC Facing UP	E	47-53	9-11	31	23	23	Front	28	0
						47-53	25-28	38	23	23	Normal	14	5
					F	47-53	10-14	39	16	16	Front	28	0
						47-53	13-16	36	21	21	Normal	14	5
33	Arizon	AZ-H7 U7 [NXP UCODE7]		IC Facing Below	E	31-37	7-9	44	22	22	Front	28	0
						31-37	34-38	41	23	21	Normal	14	5
					F	31-37	8-10	28	15	15	Front	28	0
						31-37	20-24	29	16	16	Normal	14	5
34	TOPPAN FORMS	0890 防水ICラベル M4D [Impinj Monza4D]		IC Facing UP	E	42-48	20-23	42	23	23	Front	28	0
						42-48	35-38	30	22	22	Normal	14	5
					F	42-48	19-23	41	18	18	Front	28	0
						42-48	34-37	33	22	22	Normal	14	5
35	Avery Dennison	AD-163u8 [NXP Ucode8]		IC Facing UP	E	27-33	19-21	29	24	24	Front	28	0
						27-33	23-25	29	24	24	Normal	14	5
					F	27-33	19-22	36	22	18	Front	28	0
						27-33	24-26	25	24	24	Normal	14	5

For inlays not included on this list, please contact your local SATO dealer or sales office.

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