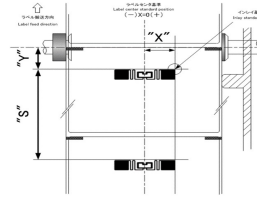


CT4-LX UHF Inlay Configuration Guide

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 is limitations. Validation of functionality in the actual system is therefore recommended.

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

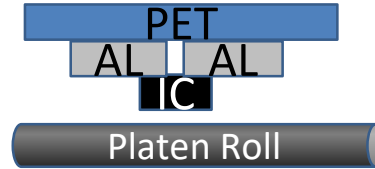


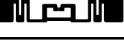
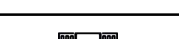
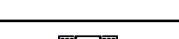
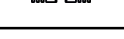
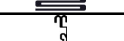
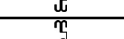
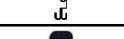
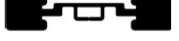
X: Liner Center to Inlay Edge
(Direction of Travel Right Side)
Y: Optimum Encoding Position
Yp: Print Write Print (PWP) Position
S: Minimum Inlay Separation

IC Facing



IC Facing



						Position(mm)								Power (dBm)				Antenna Position [mm]	
Region	Manufacturer	Inlay	IC Chip	IC Direction	Feed Orientation	X		Y		Yp	S	Write	Read	Antenna Selection	X	Y			
ETSI	SATO	ST7015R6-RE01	Impinj MonzaR6	IC Facing UP		32	to	38	4	to	6		30	13	13	Front	28	0	
ETSI	SATO	ST7015R6-RE01	Impinj MonzaR6			32	to	38	17	to	21		35	15	15	Normal	14	5	
FCC	SATO	ST7015R6-RE01	Impinj MonzaR6	IC Facing UP		32	to	38	4	to	6		35	13	13	Front	28	0	
FCC	SATO	ST7015R6-RE01	Impinj MonzaR6			32	to	38	16	to	21		35	15	15	Normal	14	5	
ETSI	SATO	ST7015R6-RE02	Impinj MonzaR6	IC Facing UP		32	to	36	3	to	5		30	18	18	Front	28	0	
ETSI	SATO	ST7015R6-RE02	Impinj MonzaR6			32	to	38	22	to	27		37	20	20	Normal	14	5	
FCC	SATO	ST7015R6-RE02	Impinj MonzaR6	IC Facing UP		32	to	38	13	to	16		38	20	20	Front	28	0	
FCC	SATO	ST7015R6-RE02	Impinj MonzaR6			32	to	38	23	to	38		35	23	23	Normal	14	5	
ETSI	SATO	ST5030R6-MK01 "Kani-R6"	Impinj MonzaR6	IC Facing UP		22	to	28	5	to	8		48	22	22	Front	28	0	
ETSI	SATO	ST5030R6-MK01 "Kani-R6"	Impinj MonzaR6			22	to	28	6	to	12		35	17	17	Normal	14	5	
FCC	SATO	ST5030R6-MK01 "Kani-R6"	Impinj MonzaR6	IC Facing UP		22	to	28	5	to	10		35	17	13	Front	28	0	
FCC	SATO	ST5030R6-MK01 "Kani-R6"	Impinj MonzaR6			22	to	28	6	to	12		35	15	15	Normal	14	5	
ETSI	SATO	ST9006R6-MK01 "Spring-R6"	Impinj MonzaR6	IC Facing UP		42	to	48	19	to	22		41	24	24	Front	28	0	
ETSI	SATO	ST9006R6-MK01 "Spring-R6"	Impinj MonzaR6			42	to	48	27	to	32		35	20	20	Normal	14	5	
FCC	SATO	ST9006R6-MK01 "Spring-R6"	Impinj MonzaR6	IC Facing UP		42	to	48	19	to	23		30	11	11	Front	28	0	
FCC	SATO	ST9006R6-MK01 "Spring-R6"	Impinj MonzaR6			42	to	48	22	to	25		30	21	21	Normal	14	5	
ETSI	SATO	ST3310R6-P-MK01 "Tako-R6P"	Impinj MonzaR6-P	IC Facing UP		13.5	to	19.5	10	to	12		30	20	20	Front	28	0	
ETSI	SATO	ST3310R6-P-MK01 "Tako-R6P"	Impinj MonzaR6-P			13.5	to	19.5	24	to	26		31	20	20	Normal	14	5	
FCC	SATO	ST3310R6-P-MK01 "Tako-R6P"	Impinj MonzaR6-P	IC Facing UP		13.5	to	19.5	20	to	22		38	24	24	Front	28	0	
FCC	SATO	ST3310R6-P-MK01 "Tako-R6P"	Impinj MonzaR6-P			15.5	to	19.5	24	to	26		28	23	23	Normal	14	5	
ETSI	SATO	ST2509R6-MK01 "E-Tako-R6"	Impinj MonzaR6	IC Facing UP		10	to	15	10	to	13		28	18	18	Front	28	0	
ETSI	SATO	ST2509R6-MK01 "E-Tako-R6"	Impinj MonzaR6			10	to	15	23	to	26		30	17	17	Normal	14	5	
FCC	SATO	ST2509R6-MK01 "E-Tako-R6"	Impinj MonzaR6	IC Facing UP		10	to	15	10	to	12		25	11	11	Front	28	0	
FCC	SATO	ST2509R6-MK01 "E-Tako-R6"	Impinj MonzaR6			10	to	15	23	to	26		30	15	15	Normal	14	5	
ETSI	SATO	ST7010M4QT-MK01 "Clover-M4QT"	Impinj Monza4QT	IC Facing UP		32	to	38	10	to	12		30	24	24	Front	28	0	
ETSI	SATO	ST7010M4QT-MK01 "Clover-M4QT"	Impinj Monza4QT			32	to	38	35	to	38		28	24	24	Normal	14	5	
FCC	SATO	ST7010M4QT-MK01 "Clover-M4QT"	Impinj Monza4QT	IC Facing UP		32	to	38	10	to	12		39	24	24	Front	28	0	
FCC	SATO	ST7010M4QT-MK01 "Clover-M4QT"	Impinj Monza4QT			32	to	38	28	to	31		21	24	24	Normal	14	5	
ETSI	SATO	ST3028R6-RE01 "MPY-R6"	Impinj MonzaR6	IC Facing UP		11	to	17	20	to	23		52	21	21	Front	28	0	
ETSI	SATO	ST3028R6-RE01 "MPY-R6"	Impinj MonzaR6			11	to	17	17	to	20		60	20	20	Normal	14	5	
FCC	SATO	ST3028R6-RE01 "MPY-R6"	Impinj MonzaR6	IC Facing UP		11	to	17	21	to	24		68	21	21	Front	28	0	
FCC	SATO	ST3028R6-RE01 "MPY-R6"	Impinj MonzaR6			16	to	22	18	to	21		50	23	23	Normal	14	5	
ETSI	SATO	ST6915R6P-MK05 "Love5-R6P"	Impinj MonzaR6-P	IC Facing Below		9.5	to	15.5	3	to	6		112	21	18	Front	28	0	
ETSI	SATO	ST6915R6P-MK05 "Love5-R6P"	Impinj MonzaR6-P			-0.5	to	5.5	4	to	9		84	20	18	Normal	14	5	
FCC	SATO	ST6915R6P-MK05 "Love5-R6P"	Impinj MonzaR6-P	IC Facing Below		4.5	to	10.5	18	to	21		110	23	19	Front	28	0	
FCC	SATO	ST6915R6P-MK05 "Love5-R6P"	Impinj MonzaR6-P			-0.5	to	5.5	4	to	8		74	20	20	Normal	14	5	
ETSI	SATO	ST5730R6-RE01 "Muscles-R6"	Impinj MonzaR6	IC Facing UP		12	to	18	20	to	23		82	24	24	Front	28	0	
ETSI	SATO	ST5730R6-RE01 "Muscles-R6"	Impinj MonzaR6			12	to	18	9	to	13		102	18	18	Normal	14	5	
FCC	SATO	ST5730R6-RE01 "Muscles-R6"	Impinj MonzaR6	IC Facing UP		12	to	18	20	to	23		108	24	23	Front	28	0	
FCC	SATO	ST5730R6-RE01 "Muscles-R6"	Impinj MonzaR6			12	to	18	8	to	12		107	22	19	Normal	14	5	
ETSI	SATO	ST9020R6-MK01 "Paddle-R6"	Impinj MonzaR6	IC Facing UP		42	to	48	3	to	6		35	15	15	Front	28	0	
ETSI	SATO	ST9020R6-MK01 "Paddle-R6"	Impinj MonzaR6			42	to	48	28	to	32		38	20	20	Normal	14	5	

Region	Manufacturer	Inlay	IC Chip	IC Direction	Feed Orientation	Position(mm)				Power (dbm)		Antenna Selection	Antenna Position [mm]	
						X	Y	Yp	S	Write	Read		X	Y
FCC	SATO	ST9020R6-MK01 "Paddle-R6"	Impinj MonzaR6	IC Facing UP		42 to 48	12 to 15		40	17	17	Front	28	0
FCC	SATO	ST9020R6-MK01 "Paddle-R6"	Impinj MonzaR6	IC Facing UP		42 to 48	24 to 27		35	19	19	Normal	14	5
ETSI	SATO	ST7545R6-FZ01 "Zeta-R6"	Impinj MonzaR6	IC Facing UP		19.5 to 25.5	Note to Note	10	80	24	21	Front	28	0
ETSI	SATO	ST7545R6-FZ01 "Zeta-R6"	Impinj MonzaR6	IC Facing UP		19.5 to 25.5	5 to 14		80	24	20	Normal	14	5
FCC	SATO	ST7545R6-FZ01 "Zeta-R6"	Impinj MonzaR6	IC Facing UP		19.5 to 25.5	20 to 24		86	24	21	Front	28	0
FCC	SATO	ST7545R6-FZ01 "Zeta-R6"	Impinj MonzaR6	IC Facing UP		19.5 to 25.5	4 to 7		80	22	17	Normal	14	5
ETSI	SATO	ST4015R6-RE01 "Warp-R6"	Impinj MonzaR6	IC Facing Below		17 to 23	6 to 8		30	24	24	Front	28	0
ETSI	SATO	ST4015R6-RE01 "Warp-R6"	Impinj MonzaR6	IC Facing Below		17 to 23	19 to 22		30	18	18	Normal	14	5
FCC	SATO	ST4015R6-RE01 "Warp-R6"	Impinj MonzaR6	IC Facing Below		17 to 23	6 to 8		42	22	22	Front	28	0
FCC	SATO	ST4015R6-RE01 "Warp-R6"	Impinj MonzaR6	IC Facing Below		17 to 23	19 to 22		28	18	18	Normal	14	5
FCC	SATO	ST3318U8-MK01 "Tab-U8"	NXP UCODE 8	IC Facing UP		13.5 to 19.5	18 to 20		40	14	14	Front	28	0
FCC	SATO	ST3318U8-MK01 "Tab-U8"	NXP UCODE 8	IC Facing UP		13.5 to 19.5	20 to 23		34	24	24	Normal	14	5
ETSI	SATO	ST5030U8-MK01 "Kani-U8"	NXP UCODE 8	IC Facing UP		0 to 0	0 to 0		0	NG	NG	Front	28	0
ETSI	SATO	ST5030U8-MK01 "Kani-U8"	NXP UCODE 8	IC Facing UP		22 to 28	20 to 25		41	23	23	Normal	14	5
FCC	SATO	ST5030U8-MK01 "Kani-U8"	NXP UCODE 8	IC Facing UP		0 to 0	0 to 0		0	NG	NG	Front	28	0
FCC	SATO	ST5030U8-MK01 "Kani-U8"	NXP UCODE 8	IC Facing UP		22 to 28	8 to 13		41	20	20	Normal	14	5
ETSI	SATO	ST7015U8-RE02	NXP UCODE 8	IC Facing UP		32 to 38	4 to 9		34	22	19	Front	28	0
ETSI	SATO	ST7015U8-RE02	NXP UCODE 8	IC Facing UP		32 to 38	18 to 23		45	21	21	Normal	14	5
FCC	SATO	ST7015U8-RE02	NXP UCODE 8	IC Facing UP		32 to 38	3 to 8		41	16	16	Front	28	0
FCC	SATO	ST7015U8-RE02	NXP UCODE 8	IC Facing UP		32 to 38	19 to 24		32	15	15	Normal	14	5
ETSI	SATO	ST4316R6P-MK01 "Zipper-R6P"	Impinj MonzaR6-P	IC Facing UP		18.5 to 24.5	2 to 7		30	17	17	Front	28	0
ETSI	SATO	ST4316R6P-MK01 "Zipper-R6P"	Impinj MonzaR6-P	IC Facing UP		18.5 to 24.5	19 to 24		34	24	24	Normal	14	5
FCC	SATO	ST4316R6P-MK01 "Zipper-R6P"	Impinj MonzaR6-P	IC Facing UP		18.5 to 19.5	2 to 7		30	17	17	Front	28	0
FCC	SATO	ST4316R6P-MK01 "Zipper-R6P"	Impinj MonzaR6-P	IC Facing UP		18.5 to 24.5	17 to 22		33	22	22	Normal	14	5
ETSI	SMARTRAC	Dogbone M4QT	Impinj Monza4QT	IC Facing UP		44.5 to 50.5	9 to 11		53	24	24	Front	28	0
ETSI	SMARTRAC	Dogbone M4QT	Impinj Monza4QT	IC Facing UP		39.5 to 45.5	24 to 28		51	17	17	Normal	14	5
FCC	SMARTRAC	Dogbone M4QT	Impinj Monza4QT	IC Facing UP		39.5 to 45.5	10 to 13		62	24	22	Front	28	0
FCC	SMARTRAC	Dogbone M4QT	Impinj Monza4QT	IC Facing UP		39.5 to 45.5	15 to 18		51	17	17	Normal	14	5
ETSI	SMARTRAC	midas Flag Tag	Impinj MonzaR6-P	IC Facing UP		22.4 to 28.4	4.5 to 7.5		36	24	22	Front	28	0
ETSI	SMARTRAC	midas Flag Tag	Impinj MonzaR6-P	IC Facing UP		17.4 to 23.4	20.5 to 25.5		25	18	18	Normal	14	5
FCC	SMARTRAC	midas Flag Tag	Impinj MonzaR6-P	IC Facing UP		22.4 to 28.4	4.5 to 7.5		37	24	22	Front	28	0
FCC	SMARTRAC	midas Flag Tag	Impinj MonzaR6-P	IC Facing UP		17.4 to 23.4	20.5 to 25.5		24	16	16	Normal	14	5
ETSI	SMARTRAC	MiniWeb ETSI Paper Tag	Impinj MonzaR6-P	IC Facing UP		19.5 to 25.5	6 to 9		31	20	20	Front	28	0
ETSI	SMARTRAC	MiniWeb ETSI Paper Tag	Impinj MonzaR6-P	IC Facing UP		19.5 to 25.5	20 to 24		38	20	20	Normal	14	5
FCC	SMARTRAC	MiniWeb ETSI Paper Tag	Impinj MonzaR6-P	IC Facing UP		19.5 to 25.5	7 to 9		31	16	16	Front	28	0
FCC	SMARTRAC	MiniWeb ETSI Paper Tag	Impinj MonzaR6-P	IC Facing UP		19.5 to 25.5	20 to 24		30	17	17	Normal	14	5
ETSI	SMARTRAC	ShortDipole Wet Inlay	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	7 to 9		30	20	20	Front	28	0
ETSI	SMARTRAC	ShortDipole Wet Inlay	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	22 to 26		29	20	20	Normal	14	5
FCC	SMARTRAC	ShortDipole Wet Inlay	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	8 to 10		27	20	20	Front	28	0
FCC	SMARTRAC	ShortDipole Wet Inlay	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	20 to 24		28	19	19	Normal	14	5
ETSI	SMARTRAC	DogBone Wet Inlay	NXP UCODE 8	IC Facing UP		50.5 to 54.5	14 to 16		58	23	23	Front	28	0
ETSI	SMARTRAC	DogBone Wet Inlay	NXP UCODE 8	IC Facing UP		45.5 to 51.5	29 to 34		38	23	18	Normal	14	5
FCC	SMARTRAC	DogBone Wet Inlay	NXP UCODE 8	IC Facing UP		45.5 to 51.5	13 to 17		50	18	15	Front	28	0
FCC	SMARTRAC	DogBone Wet Inlay	NXP UCODE 8	IC Facing UP		45.5 to 51.5	26 to 30		51	22	22	Normal	14	5
ETSI	SMARTRAC	DogBone Paper Tag	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	4 to 7		55	22	22	Front	28	0
ETSI	SMARTRAC	DogBone Paper Tag	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	24 to 29		49	18	18	Normal	14	5
FCC	SMARTRAC	DogBone Paper Tag	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	9 to 13		55	18	18	Front	28	0
FCC	SMARTRAC	DogBone Paper Tag	Impinj MonzaR6-P	IC Facing UP		45.5 to 51.5	14 to 18		51	20	20	Normal	14	5
ETSI	SMARTRAC	Web Paper Tag	NXP UCODE 7	IC Facing UP		24 to 30	8 to 10		38	20	20	Front	28	0
ETSI	SMARTRAC	Web Paper Tag	NXP UCODE 7	IC Facing UP		24 to 30	9 to 13		39	15	15	Normal	14	5
FCC	SMARTRAC	Web Paper Tag	NXP UCODE 7	IC Facing UP		24 to 30	9 to 13		46	19	19	Front	28	0
FCC	SMARTRAC	Web Paper Tag	NXP UCODE 7	IC Facing UP		24 to 30	10 to 14		40	18	18	Normal	14	5
ETSI	SMARTRAC	Accessory Tag Wet Inlay	Impinj MonzaR6-P	IC Facing Below		13.5 to 19.5	5 to 9		29	17	17	Front	28	0
ETSI	SMARTRAC	Accessory Tag Wet Inlay	Impinj MonzaR6-P	IC Facing Below		13.5 to 19.5	20 to 25		26	20	20	Normal	14	5
FCC	SMARTRAC	Accessory Tag Wet Inlay	Impinj MonzaR6-P	IC Facing Below		13.5 to 19.5	5 to 9		31	15	15	Front	28	0
FCC	SMARTRAC	Accessory Tag Wet Inlay	Impinj MonzaR6-P	IC Facing Below		13.5 to 19.5	18 to 23		23	13	13	Normal	14	5
FCC	SMARTRAC	Miniweb FCC-U8 Wet [3007034]	NXP UCODE 8	IC Facing UP		18 to 24	3 to 8		28	11	11	Front	28	0
FCC	SMARTRAC	Miniweb FCC-U8 Wet [3007034]	NXP UCODE 8	IC Facing UP		18 to 24	18 to 23		25	15	15	Normal	14	5
ETSI	SMARTRAC	Wings-U8 WWet [3007250]	NXP UCODE 8	IC Facing UP		33 to 39	17 to 22		55	19	19	Front	28	0
ETSI	SMARTRAC	Wings-U8 WWet [3007250]	NXP UCODE 8	IC Facing UP		33 to 39	32 to 37		42	19	19	Normal	14	5
FCC	SMARTRAC	Wings-U8 WWet [3007250]	NXP UCODE 8	IC Facing UP		33 to 39	16 to 21		60	16	16	Front	28	0
FCC	SMARTRAC	Wings-U8 WWet [3007250]	NXP UCODE 8	IC Facing UP		33 to 39	31 to 36		46	23	23	Normal	14	5
ETSI	Alien Technology	ALN-9654 "G Tag"	Alien Higgs3	IC Facing UP		43.5 to 49.5	4 to 7		47	23	18	Front	28	0
ETSI	Alien Technology	ALN-9654 "G Tag"	Alien Higgs3	IC Facing UP		43.5 to 49.5	19 to 22		37	23	20	Normal	14	5

						Position (mm)								Power (dbm)		Antenna Position [mm]		
Region	Manufacturer	Inlay	IC Chip	IC Direction	Feed Orientation	X		Y		Yp	S	Write	Read	Antenna Selection	X	Y		
FCC	Alien Technology	ALN-9654 "G Tag"	Alien Higgs3	IC Facing UP		43.5	to	49.5	5	to	8		47	23	20	Front	28	0
FCC	Alien Technology	ALN-9654 "G Tag"	Alien Higgs3			43.5	to	49.5	18	to	21		44	24	20	Normal	14	5
ETSI	Alien Technology	ALN-9662 "Short"	Alien Higgs3	IC Facing Below		32	to	38	5	to	7		33	20	20	Front	28	0
ETSI	Alien Technology	ALN-9662 "Short"	Alien Higgs3			32	to	38	18	to	21		33	24	20	Normal	14	5
FCC	Alien Technology	ALN-9662 "Short"	Alien Higgs3	IC Facing Below		32	to	38	4	to	6		33	20	20	Front	28	0
FCC	Alien Technology	ALN-9662 "Short"	Alien Higgs3			32	to	38	18	to	21		22	24	17	Normal	14	5
ETSI	Alien Technology	ALN-9710 "Squig"	Alien Higgs4	IC Facing UP		19.25	to	25.25	9	to	11		28	23	23	Front	28	0
ETSI	Alien Technology	ALN-9710 "Squig"	Alien Higgs4			19.25	to	25.25	22	to	26		19	23	23	Normal	14	5
FCC	Alien Technology	ALN-9710 "Squig"	Alien Higgs4	IC Facing UP		19.25	to	25.25	9	to	11		30	20	20	Front	28	0
FCC	Alien Technology	ALN-9710 "Squig"	Alien Higgs4			19.25	to	25.25	22	to	25		22	21	21	Normal	14	5
ETSI	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4	IC Facing UP		12	to	18	18	to	22		85	24	20	Front	28	0
ETSI	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4			12	to	18	6	to	8		75	24	24	Normal	14	5
FCC	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4	IC Facing UP		12	to	18	19	to	23		75	24	18	Front	28	0
FCC	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4			12	to	18	6	to	8		75	24	24	Normal	14	5
ETSI	Alien Technology	ALN-9740 "Squiggle"	Alien Higgs4	IC Facing UP		47	to	49	10	to	12		25	24	18	Front	28	0
ETSI	Alien Technology	ALN-9740 "Squiggle"	Alien Higgs4			45	to	49	24	to	26		25	22	19	Normal	14	5
FCC	Alien Technology	ALN-9740 "Squiggle"	Alien Higgs4	IC Facing UP		45	to	49	10	to	12		25	23	15	Front	28	0
FCC	Alien Technology	ALN-9740 "Squiggle"	Alien Higgs4			45	to	49	24	to	27		25	22	20	Normal	14	5
FCC	Alien Technology	ALN-9816-WRW "Pearl"	Alien HiggsEC	IC Facing UP		0	to	0	0	to	0		0	NG	NG	Front	28	0
FCC	Alien Technology	ALN-9816-WRW "Pearl"	Alien HiggsEC			0	to	0	0	to	0		0	NG	NG	Normal	14	5
FCC	Alien Technology	ALN-9825-WRW "Gecko"	Alien HiggsEC	IC Facing UP		16.5	to	22.5	15	to	20		40	24	24	Front	28	0
FCC	Alien Technology	ALN-9825-WRW "Gecko"	Alien HiggsEC			0	to	0	0	to	0		0	NG	NG	Normal	14	5
FCC	Alien Technology	ALN-9827-WRW "GT-L"	Alien HiggsEC	IC Facing UP		22	to	28	2	to	3		41	14	14	Front	28	0
FCC	Alien Technology	ALN-9827-WRW "GT-L"	Alien HiggsEC			22	to	28	9	to	16		42	18	18	Normal	14	5
FCC	Alien Technology	ALN-9828-WRW "GT"	Alien HiggsEC	IC Facing UP		22	to	23	3	to	8		35	11	11	Front	28	0
FCC	Alien Technology	ALN-9828-WRW "GT"	Alien HiggsEC			22	to	23	11	to	16		42	18	18	Normal	14	5
FCC	Alien Technology	ALN-9830-WRW "Squiglette"	Alien HiggsEC	IC Facing UP		32	to	38	8	to	13		28	24	24	Front	28	0
FCC	Alien Technology	ALN-9830-WRW "Squiglette"	Alien HiggsEC			32	to	38	23	to	28		24	20	20	Normal	14	5
FCC	Alien Technology	ALN-9835-WRW "Express"	Alien HiggsEC	IC Facing UP		0	to	0	0	to	0		0	NG	NG	Front	28	0
FCC	Alien Technology	ALN-9835-WRW "Express"	Alien HiggsEC			32	to	38	20	to	25		30	21	21	Normal	14	5
FCC	Alien Technology	ALN-9840-WRW "Squiggle"	Alien HiggsEC	IC Facing UP		44.4	to	50.4	5	to	10		33	19	19	Front	28	0
FCC	Alien Technology	ALN-9840-WRW "Squiggle"	Alien HiggsEC			44.4	to	50.4	24	to	29		25	21	21	Normal	14	5
FCC	Alien Technology	ALN-9841-WRW "Doc"	Alien HiggsEC	IC Facing UP		0	to	0	0	to	0		0	NG	NG	Front	28	0
FCC	Alien Technology	ALN-9841-WRW "Doc"	Alien HiggsEC			0	to	0	0	to	0		0	NG	NG	Normal	14	5
FCC	Alien Technology	ALN-9862-WRW "Short"	Alien HiggsEC	IC Facing UP		32	to	38	2	to	7		36	24	18	Front	28	0
FCC	Alien Technology	ALN-9862-WRW "Short"	Alien HiggsEC			32	to	38	19	to	24		32	18	18	Normal	14	5
FCC	Alien Technology	ALN-9874-WRW "Tread"	Alien HiggsEC	IC Facing UP		37	to	43	2	to	3		52	20	16	Front	28	0
FCC	Alien Technology	ALN-9874-WRW "Tread"	Alien HiggsEC			37	to	43	8	to	13		51	15	15	Normal	14	5
ETSI	TAGEOS	E0S-241	NXP UCODE 8	IC Facing Below		19.5	to	25.5	4	to	9		27	20	16	Front	28	0
ETSI	TAGEOS	E0S-241	NXP UCODE 8			19.5	to	25.5	19	to	23		22	23	20	Normal	14	5
FCC	TAGEOS	E0S-241	Impinj MonzaR6-P	IC Facing Below		19.5	to	25.5	4	to	8		31	16	20	Front	28	0
FCC	TAGEOS	E0S-241	Impinj MonzaR6-P			19.5	to	25.5	18	to	22		22	24	20	Normal	14	5
ETSI	TAGEOS	E0S-300	Impinj MonzaR6-P	IC Facing UP		24	to	30	5	to	8		39	24	24	Front	28	0
ETSI	TAGEOS	E0S-300	Impinj MonzaR6-P			24	to	30	7	to	10		39	24	22	Normal	14	5
FCC	TAGEOS	E0S-300	Impinj MonzaR6-P	IC Facing UP		24	to	30	6	to	9		40	24	24	Front	28	0
FCC	TAGEOS	E0S-300	Impinj MonzaR6-P			24	to	30	5	to	8		40	24	22	Normal	14	5
ETSI	TAGEOS	E0S-400	Impinj MonzaR6-P	IC Facing UP		34	to	40	3	to	6		29	21	18	Front	28	0
ETSI	TAGEOS	E0S-400	Impinj MonzaR6-P			34	to	40	18	to	23		36	18	18	Normal	14	5
FCC	TAGEOS	E0S-400	Impinj MonzaR6-P	IC Facing UP		34	to	40	3	to	6		38	21	18	Front	28	0
FCC	TAGEOS	E0S-400	Impinj MonzaR6-P			34	to	40	15	to	19		37	21	18	Normal	14	5
ETSI	TAGEOS	E0S-420	Impinj MonzaR6	IC Facing UP		32	to	38	5	to	9		40	20	20	Front	28	0
ETSI	TAGEOS	E0S-420	Impinj MonzaR6			32	to	38	20	to	23		31	21	21	Normal	14	5
FCC	TAGEOS	E0S-420	Impinj MonzaR6	IC Facing UP		32	to	38	5	to	8		62	16	16	Front	28	0
FCC	TAGEOS	E0S-420	Impinj MonzaR6			32	to	38	19	to	23		30	21	21	Normal	14	5
ETSI	TAGEOS	E0S-500	Impinj MonzaR6	IC Facing UP		47	to	53	9	to	11		31	23	23	Front	28	0
ETSI	TAGEOS	E0S-500	Impinj MonzaR6			47	to	53	25	to	28		38	23	23	Normal	14	5
FCC	TAGEOS	E0S-500	Impinj MonzaR6	IC Facing UP		47	to	53	10	to	14		39	16	16	Front	28	0
FCC	TAGEOS	E0S-500	Impinj MonzaR6			47	to	53	13	to	16		36	21	21	Normal	14	5
ETSI	Arizon	AZ-H7 U7	NXP UCODE 7	IC Facing Below		31	to	37	7	to	9		44	22	22	Front	28	0
ETSI	Arizon	AZ-H7 U7	NXP UCODE 7			31	to	37	34	to	38		41	23	21	Normal	14	5
FCC	Arizon	AZ-H7 U7	NXP UCODE 7	IC Facing Below		31	to	37	8	to	10		28	15	15	Front	28	0
FCC	Arizon	AZ-H7 U7	NXP UCODE 7			31	to	37	20	to	24		29	16	16	Normal	14	5

						Position (mm)						Power (dBm)		Antenna Position [mm]			
Region	Manufacturer	Inlay	IC Chip	IC Direction	Feed Orientation	X		Y		Yp	S	Write	Read	Antenna Selection	X	Y	
ETSI	TOPPAN FORMS	0890 防水ICラベル M4D	Impinj Monza4D	IC Facing UP		42	to	48	20	to	23	42	23	23	Front	28	0
ETSI	TOPPAN FORMS	0890 防水ICラベル M4D	Impinj Monza4D			42	to	48	35	to	38			30	22	22	Normal
FCC	TOPPAN FORMS	0890 防水ICラベル M4D	Impinj Monza4D	IC Facing UP		42	to	48	19	to	23	41	18	18	Front	28	0
FCC	TOPPAN FORMS	0890 防水ICラベル M4D	Impinj Monza4D			42	to	48	34	to	37			33	22	22	Normal
ETSI	Avery Dennison	AD-163u8	NXP UCODE 8	IC Facing UP		27	to	33	19	to	21	29	24	24	Front	28	0
ETSI	Avery Dennison	AD-163u8	NXP UCODE 8			27	to	33	23	to	25			29	24	24	Normal
FCC	Avery Dennison	AD-163u8	NXP UCODE 8	IC Facing UP		27	to	33	19	to	22	36	22	18	Front	28	0
FCC	Avery Dennison	AD-163u8	NXP UCODE 8			27	to	33	24	to	26			25	24	24	Normal
ETSI	Stora Enso	ECO Bumper-U8 PaperTag [500025]	NXP UCODE 8	IC Facing Below		0	to	0	0	to	0	0	NG	NG	Front	28	0
ETSI	Stora Enso	ECO Bumper-U8 PaperTag [500025]	NXP UCODE 8			44	to	50	18	to	23			38	17	17	Normal
FCC	Stora Enso	ECO Bumper-U8 PaperTag [500025]	NXP UCODE 8	IC Facing Below		0	to	0	0	to	0	0	NG	NG	Front	28	0
FCC	Stora Enso	ECO Bumper-U8 PaperTag [500025]	NXP UCODE 8			44	to	50	19	to	24			39	23	23	Normal
ETSI	Stora Enso	ECO Hanger-U8 PaperTag [500033]	NXP UCODE 8	IC Facing Below		23	to	29	5	to	10	46	20	20	Front	28	0
ETSI	Stora Enso	ECO Hanger-U8 PaperTag [500033]	NXP UCODE 8			23	to	29	6	to	11			39	23	18	Normal
FCC	Stora Enso	ECO Hanger-U8 PaperTag [500033]	NXP UCODE 8	IC Facing Below		23	to	29	5	to	10	41	17	12	Front	28	0
FCC	Stora Enso	ECO Hanger-U8 PaperTag [500033]	NXP UCODE 8			23	to	29	7	to	12			39	18	18	Normal
ETSI	Stora Enso	ECO Hook-U8 PaperTag [500034]	NXP UCODE 8	IC Facing Below		20.5	to	26.5	2	to	7	32	15	15	Front	28	0
ETSI	Stora Enso	ECO Hook-U8 PaperTag [500034]	NXP UCODE 8			20.5	to	26.5	19	to	24			30	23	18	Normal
FCC	Stora Enso	ECO Hook-U8 PaperTag [500034]	NXP UCODE 8	IC Facing Below		20.5	to	26.5	2	to	7	32	13	13	Front	28	0
FCC	Stora Enso	ECO Hook-U8 PaperTag [500034]	NXP UCODE 8			20.5	to	26.5	18	to	23			26	12	12	Normal
ETSI	Stora Enso	ECO Rack-U8 PaperTag [500037]	NXP UCODE 8	IC Facing Below		32	to	38	4	to	9	32	19	16	Front	28	0
ETSI	Stora Enso	ECO Rack-U8 PaperTag [500037]	NXP UCODE 8			32	to	38	18	to	23			33	19	19	Normal
FCC	Stora Enso	ECO Rack-U8 PaperTag [500037]	NXP UCODE 8	IC Facing Below		32	to	38	4	to	9	47	18	18	Front	28	0
FCC	Stora Enso	ECO Rack-U8 PaperTag [500037]	NXP UCODE 8			32	to	38	18	to	23			26	11	11	Normal
ETSI	Stora Enso	Racer-MR6-P Wet [500043]	Impinj MonzaR6-P	IC Facing Below		44.5	to	50.5	3	to	8	27	21	21	Front	28	0
ETSI	Stora Enso	Racer-MR6-P Wet [500043]	Impinj MonzaR6-P			44.5	to	50.5	21	to	26			24	19	19	Normal
FCC	Stora Enso	Racer-MR6-P Wet [500043]	Impinj MonzaR6-P	IC Facing Below		44.5	to	50.5	4	to	9	26	18	18	Front	28	0
FCC	Stora Enso	Racer-MR6-P Wet [500043]	Impinj MonzaR6-P			44.5	to	50.5	21	to	26			25	15	15	Normal
ETSI	Stora Enso	ECO Stripe-U8 PaperTag [500054]	NXP UCODE 8	IC Facing Below		0	to	0	0	to	0	0	NG	NG	Front	28	0
ETSI	Stora Enso	ECO Stripe-U8 PaperTag [500054]	NXP UCODE 8			10	to	16	16	to	21			29	22	22	Normal
FCC	Stora Enso	ECO Stripe-U8 PaperTag [500054]	NXP UCODE 8	IC Facing Below		0	to	0	0	to	0	0	NG	NG	Front	28	0
FCC	Stora Enso	ECO Stripe-U8 PaperTag [500054]	NXP UCODE 8			15	to	16	16	to	21			26	24	24	Normal
ETSI	Stora Enso	ECO Hook S-U8 PaperTag [500059]	NXP UCODE 8	IC Facing Below		17.5	to	18.5	5	to	10	40	24	24	Front	28	0
ETSI	Stora Enso	ECO Hook S-U8 PaperTag [500059]	NXP UCODE 8			12.5	to	18.5	19	to	24			25	17	14	Normal
FCC	Stora Enso	ECO Hook S-U8 PaperTag [500059]	NXP UCODE 8	IC Facing Below		12.5	to	13.5	6	to	11	45	24	24	Front	28	0
FCC	Stora Enso	ECO Hook S-U8 PaperTag [500059]	NXP UCODE 8			12.5	to	18.5	16	to	21			26	23	20	Normal
ETSI	Stora Enso	ECO Hanger S-U8 PaperTag [500063]	NXP UCODE 8	IC Facing Below		0	to	0	0	to	0	0	NG	NG	Front	28	0
ETSI	Stora Enso	ECO Hanger S-U8 PaperTag [500063]	NXP UCODE 8			18	to	24	10	to	15			40	17	17	Normal
FCC	Stora Enso	ECO Hanger S-U8 PaperTag [500063]	NXP UCODE 8	IC Facing Below		18	to	24	10	to	15	41	18	18	Front	28	0
FCC	Stora Enso	ECO Hanger S-U8 PaperTag [500063]	NXP UCODE 8			18	to	24	11	to	16			31	12	9	Normal

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