

syndicate

R F I D

		Datamars FT401-ST	Syndicate Lavanda 1358	Syndicate Lavanda 2058	Syndicate Lavanda 1170	Comments
Dimensions	Length (mm)	75	58	58	70	Smaller = Easier to install on product and more discrete
	Width (mm)	10	13	20	11	
	Thickness on chip area (mm)	1,5	2	2	2	
	Thickness other area (mm)	0,7	0,7	0,7	0,7	
	Score	5	4	3	4	
Use case	Sewing	NO	YES	YES	YES	More options = Flexibility for installation on customer products
	Insertion in hem	YES	YES	NO	YES	
	Patching	NO	YES	YES	YES	
	Overpatching	YES	YES	YES	YES	
	Score	3	5	4	5	
Reliability	Visual after intensive washing	Not evaluated	OK	OK	OK	Status of the tag after long term normal use
	Mechanical resistance to high pressure	OK	OK	OK	OK	
	Resistance to chemicals (acid/base, solvent)	Good	Good	Good	Good	
	Score	3	5	5	5	
Quality/Stability	Process	Manual	Automatic	Automatic	Automatic	Reliability of the tag based on process
	Microchip manufacturing	Semi-automatic	Automatic	Automatic	Automatic	
	Cutting	Manual	Laser	Laser	Laser	
	Dead on Arrival (DOA)	No guarantee	Not possible	Not possible	Not possible	
	Qualified	200 cycles @ 60bars	200 cycles @ 60bars	200 cycles @ 60bars	200 cycles @ 60bars	
	Method of qualification	Real industrial laundry water extractor	Real industrial laundry water extractor	Real industrial laundry water extractor	Real industrial laundry water extractor	
	Warranty	200 cycles @ 60bars	200 cycles @ 60bars	200 cycles @ 60bars	200 cycles @ 60bars	
Score	3	5	5	5		
UHF RF performance	Individual measurement ETSI (meters)	6,1	7,7	7,4	9,3	Individual performance
	Individual measurement FCC (meters)	6,6	6,8	7	9,2	Performance in standard use case
	Stacking performance	Low	Medium	Good	Good	
	Sensitivity to detuning (humidity)	Medium	Medium	Medium	Medium	
	Sensitivity to detuning (Material)	Medium	Medium	Medium	Medium	Performance at reading stations
	Sensitivity to leakage	Low	Low	Low	Low	
	Sensitivity to orientation	-33%	-30%	-25%	-30%	
	Sensitivity to folding	Good	Good	Medium	Medium	
Score	3	4	4	4		
Options	Serial number engraved	NO	YES	YES	YES	More options = Flexibility for customer
	Custom logo	NO	YES	YES	YES	
	Custom laser engraving	YES	YES	YES	YES	
	Chip encoding	YES	YES	YES	YES	
	Reel to reel delivery	NO	YES	YES	YES	
	EPC/TID database per bag	NO	YES	YES	YES	
	Custom dimensions	NO	YES	YES	YES	
	Score	1	5	5	5	