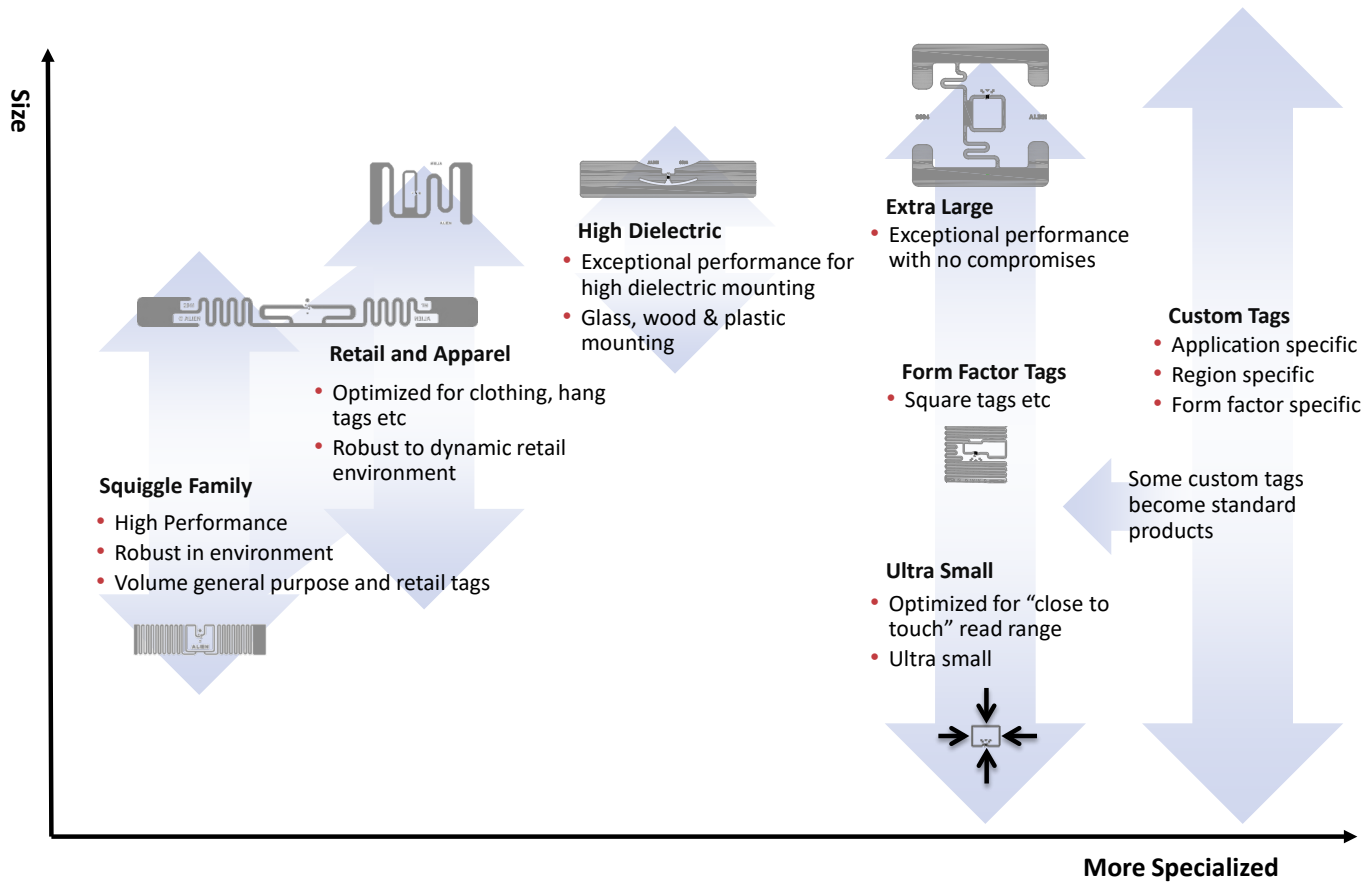




# ALIEN FAMILY OF EPC GEN 2 RFID INLAYS

Alien Technology® manufactures a range of EPC Gen 2 inlays designed to deliver optimal performance in a variety of applications.

Powered either by the larger memory **Higgs™-3 UHF RFID IC**, the volume focused **Higgs™-4** or the new **Higgs™-EC** with increased range, reliability and robustness, Alien® offers a range of RFID inlays that fit a wide variety of sizes, applications, characteristics and needs.




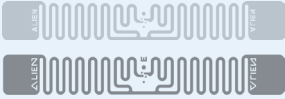



**All Alien inlays are World Tag compliant**, enabling operation across the diverse frequencies of the Americas, Europe, Middle East, Asia, and Africa. Some tags are world tags with specially tuned performance for optimal behavior in certain regions. See the tag matrix on the following pages. Please refer to Alien’s Higgs-3, Higgs-4 and Higgs-EC product overviews for details on the RFID IC capabilities.

Alien has the capability to design custom tags for appropriate volume applications (under appropriate business terms) and can offer reference designs under license.



## Alien Family of EPC Gen 2 RFID Inlays

### Inlays: Squiggle Family

Product	Higgs-3	Higgs-4	Higgs-EC	Antenna Size <sup>1</sup>	Application
Squiggle™ (SQ) 	ALN-9640	ALN-9740	ALN-9840	3.732" x 0.319" 94.8mm x 8.1mm	Item/asset tracking including: pallet placards, cases, baggage, denim, poly bags, electronics, apparel tags and boxed items.
Squiglette (ST) and Squiglette-E (STE) 	ALN-9630	ALN-9730 ALN-9730-E <sup>2</sup>	ALN-9830	2.756" x 0.374" 70mm x 9.5mm	
Short (SH) 	ALN-9662	ALN-9762	N/A	2.756" x 0.669" 70mm x 17mm	
Squig (SG) 	ALN-9610	ALN-9710	N/A	1.752" x 0.409" 44.5mm x 10.4mm	
Doc Tag (DOC) 	N/A	ALN-9741	N/A	3.74" x 0.32" 95mm x 8.15mm	

Product	Features	Benefits
Squiggle (SQ) Squiglette (ST) and Squiglette-E (STE) Short (SH) Squig (SG)	<p>Squiggle is one of the most widely used general purpose tags.</p> <p>Family extends the Squiggle features into different form-factors.</p> <p>One of the best performing general purpose tag family on the market.</p> <p>Designed to work well in challenging environments.</p>	<p>Well proven design for a broad range of worldwide applications.</p> <p><b>All Alien tags are world-tags and work well in all regions.</b> Tags denoted with an "E" on the model number (and name) are <i>specialty</i> tuned for optimal performance in Europe (but are still world tags).</p> <p>A very robust general purpose tag (for ultimate robustness in high dielectric environments - see Aliens "G" or "BAT" tags).</p>
Doc Tag (DOC)	Dielectrically matched to papers, cardboards and similar printed stock. Extremely tolerant to close placement of multiple tags.	Allows tags to be placed on documents or files where these documents will be tightly packed together with many tags in close proximity to each other. These tags have minimal chance of shadowing (hiding each other) from the reader.

<sup>1</sup> Sizes are approximate. **These are inlay antenna sizes.** Tags and labels will be larger. Please refer to specific product details available on Alien's website for exact measurements - [www.alientechnology.com](http://www.alientechnology.com)

<sup>2</sup> All Alien tags are world-tags and work well in all regions. However, tags denoted "E" are specially tuned for optimal performance in Europe.



## Inlay Application Guide:

This table is a guide to assist narrowing the inlay types that may be relevant in your application. Tags should always be tested in their application but this table should help narrow that initial selection.

	Squiggle Family					Specialized Retail					High-Dielectric / Automotive				Form-factor			
	Squiggle® (SQ)	Short (SH)	Squiglette (ST)	Squig (SG)	Doc Tag (DT)	Glint (GL)	Pearl (PE)	HiScan (HS)	GT-Tag (GT)	Spider-360 (SP)	BAT-Tag (BAT)	Wonder-Dog (WD)	G-Tag (G)	Bio-Tag (BIO)	SlimLine (SL)	2x2 (2x2)	Square (1x1)	SIT (SIT)
Higgs™-EC Model #	ALN-9840	N/A	ALN-9830	N/A	N/A	N/A	N/A	ALN-9820	ALN-9828	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Higgs™-4 Model #	ALN-9740	ALN-9762	ALN-9730 ALN-9730-E	ALN-9710	ALN-9741	ALN-9715	ALN-9716	ALN-9720	ALN-9728	ALN-9726	ALN-9770	ALN-9768	N/A	ALN-9714	ALN-9745	N/A	N/A	ALN-9713
Higgs™-3 Model #	ALN-9640	ALN-9662	ALN-9630	ALN-9610	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ALN-9654	N/A	N/A	ALN-9634	ALN-9629	ALN-9613	
Retail																		
Mobile Asset Tracking*																		
Automotive																		
Pharma / Healthcare																		
Ultra compact																		
Wood/ Plastic/ Glass																		
Files/ Paper																		
General Purpose																		
Ref Design Available?	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes



\* Includes Consumer Electronic Devices (TV's, STB's etc)

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HANDLING PRECAUTIONS Observe standard handling practices to minimize ESD.

DISCLAIMER Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general purpose product not designed or intended for any specific application.

This product is covered by one or more of the following U.S. patents: 7967204, 7931063, 7868766, 7737825, 7716208, 7716160, 7688206, 7659822, 7619531, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7551141, 7542301, 7542008, 7531218, 7522055, 7500610, 7489248, 7453705, 7425467, 7417306, 7411503, 7385284, 7377445, 7364084, 7353598, 7342400, 7324061, 7321159, 7301458, 7295114, 7288432, 7266675, 7262686, 7260882, 7253735, 7244326, 7218527, 7214569, 7199527, 7193504, 7173528, 7172910, 7172789, 7141176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 6952157, 6942155, 6933848, 6927085, 6816380, 6780696, 6731353, 6693384, 6683663, 6665044, 6657289, 6623579, 6606247, 6606079, 6590346, 6586338, 6566744, 6555408, 6527964, 6479395, 6468638, 6420266, 6316278, 6291896, 6281038. Other patents pending.

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