

RFID Tags Data Sheet - Passive Low Frequency (LF) For:



R³⁻² = 125 KHz Smart Antennas

R³⁻¹ = 125 KHz Legacy Readers

R³ = 148 KHz Legacy Readers

134.2 KHz ISO 11784 & 11785

EEPROM memories ranging from 10 bytes RO (read only) to 2048 bytes RW (read write)

NXP - Hitag1, Hitag2, HitagS

Atmel - T5557, T5567, ATA5575/5577

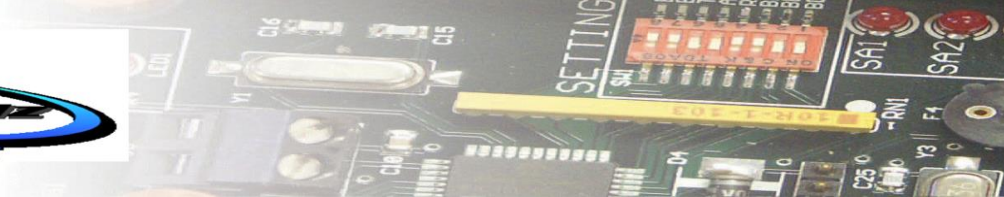
EM - EM4100, EM4102, EM4200

EM - EM4105, EM4205, EM4305, EM4450

Frequency - All Tags are 125 KHz unless specifically called out as 134.2 KHz or 148 KHz although any Tag can be customized to be 134.2 KHz or 148 KHz.

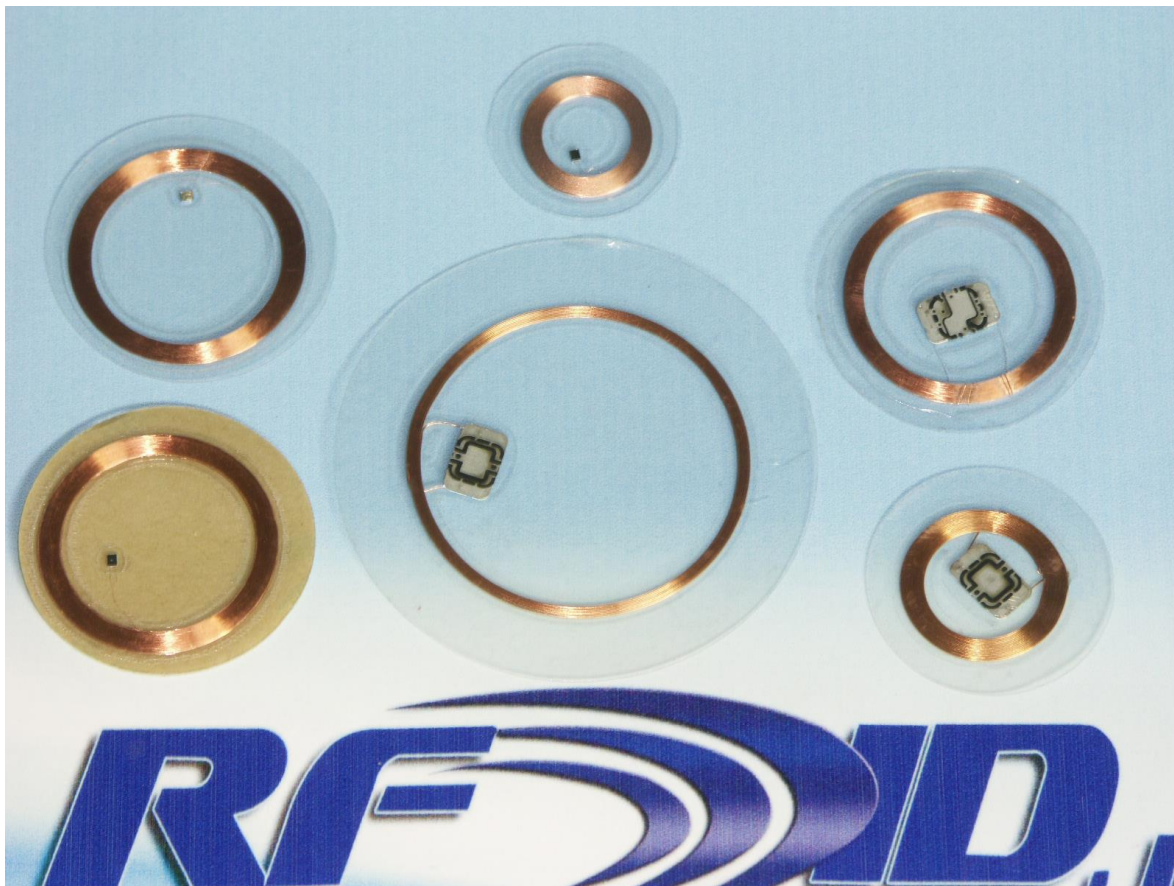
Memory Chip - All part numbers referenced in this document contain RFID, Inc.'s proprietary EEPROM. Add suffix to part number with chips above to order a specific chip, for example -Hitag1 or -EM4450. Also HID compatible. **Read Ranges** - See Matrix on page 23.





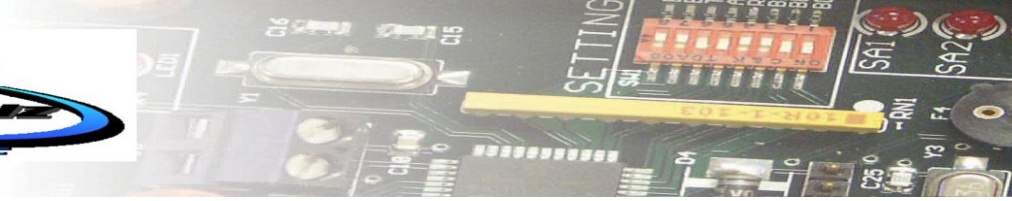
Clear Laminate Disc Tags

Model 1760 Series



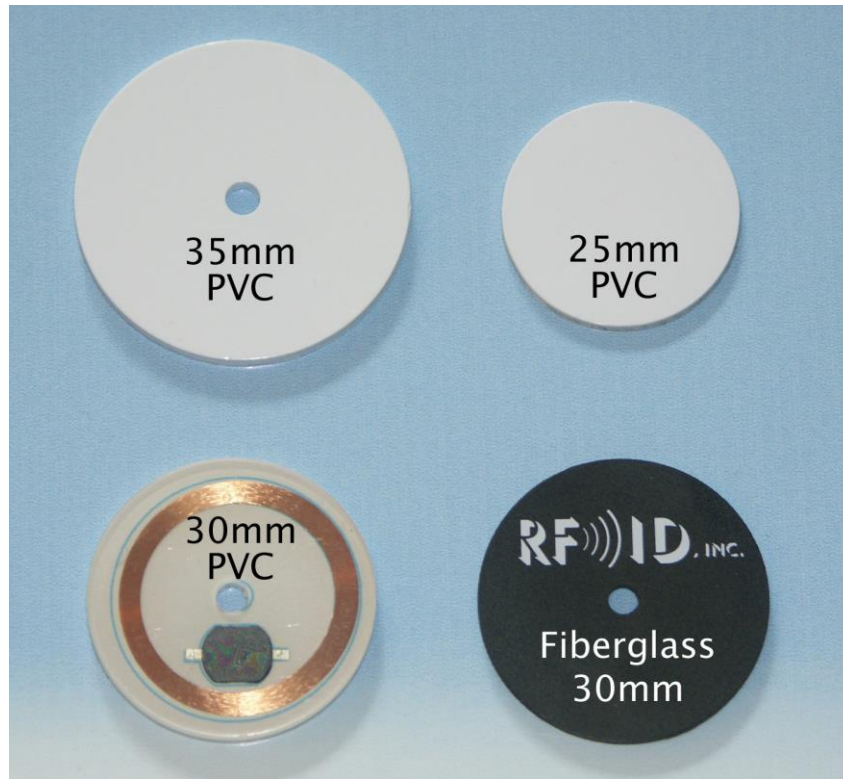
Specifications:	Dimensions:	20mm, 30mm, 50mm	Custom Sizes Available
	Material:	Clear Laminate	Option Peel & Stick Backing
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-67	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	20mm RO	1760-20-RO	800-0119-02
RW = Read Write	20mm RW	1760-20-RW	800-0119-03
P/S = Peel & Stick	20mm P/S RO	1760-20-P/S-RO	800-0119-04
	20mm P/S RW	1760-20-P/S-RW	800-0119-05
For 134.2 KHz add suffix to P/N of -134	30mm RO	1760-30-RO	800-0100-00
	30mm RW	1760-30-RW	800-0100-01
	30mm P/S RO	1760-30-P/S-RO	800-0100-02
	30mm P/S RW	1760-30-P/S-RW	800-0100-03
	50mm RO	1760-50-RO	800-0100-04
	50mm RW	1760-50-RW	800-0100-05
	50mm P/S RO	1760-50-P/S-RO	800-0100-06
	50mm P/S RW	1760-50-P/S-RW	800-0100-07



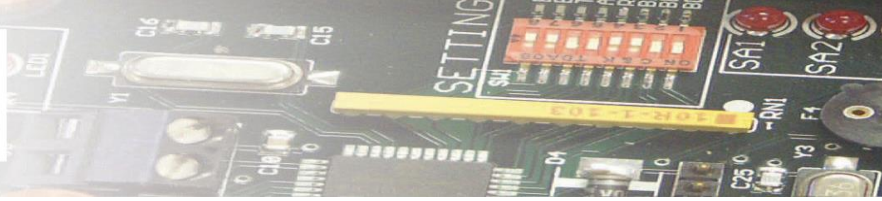
PVC Laminate & Fiberglass Disc Tags

Model 1761 Series



Specifications:	Dimensions:	25mm x 1mm, 30/35mm x 2mm	Custom Sizes Available
	Material:	PVC Laminate (white) Fiberglass (black)	Option Peel & Stick Backing
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	25mm RO, PVC	1761-25-RO	800-0101-00
RW = Read Write	25mm RW, PVC	1761-25-RW	800-0101-01
P/S = Peel & Stick	25mm P/S RO, PVC	1761-25-P/S-RO	800-0121-00
	25mm P/S RW, PVC	1761-25-P/S-RW	800-0121-01
	30mm RO w/center hole, PVC	1761-30-RO	800-0101-10
	30mm RW w/center hole, PVC	1761-30-RW	800-0101-11
	30mm P/S RO w/center hole, PVC	1761-30-P/S-RO	800-0121-10
	30mm P/S RW w/center hole, PVC	1761-30-P/S-RW	800-0121-11
	30mm RW w/center hole, Fiberglass	1761-30-RW-FIBER	800-0100-05-FIBER
	35mm RO w/center hole, PVC	1761-35-RO	800-0075-00
For 134.2 KHz add suffix to P/N of -134	35mm RW w/center hole, PVC	1761-35-RW	800-0075-01
	35mm RW w/center hole, PVC	1761-35-RW	800-0083-00 (148 KHz)
	35mm P/S RO w/center hole, PVC	1761-35-P/S-RO	800-0075-02
	35mm P/S RW w/center hole, PVC	1761-35-P/S-RW	800-0075-03



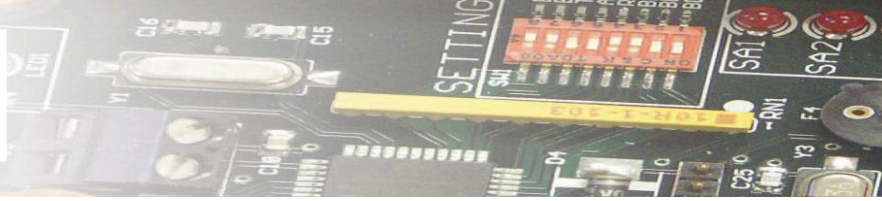
ABS Disc Tags

Model 1762 Series



Specifications:	Dimensions:	30mm x 2mm w/4mm hole 30mm x 5mm w/5mm hole 35mm x 4mm w/4mm hole 50mm x 8mm w/5mm hole	Custom Sizes Available
	Material:	ABS - Sonically Welded	Polycarbonate - Global Tag
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-67	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	30mm RO Global Tag	1762-30-RO	800-0118-00
RW = Read Write	30mm RW Global Tag	1762-30-RW	800-0118-01
	30mm RO ABS Disc Tag	1762-30-RO-WHT or -BLK	800-0118-02-WHT or -BLK
	30mm RW ABS Disc Tag	1762-30-RW-WHT or -BLK	800-0118-03-WHT or -BLK
	35mm RO ABS Disc Tag	1762-35-RO-WHT or -BLK	800-0118-04-WHT or -BLK
	35mm RW ABS Disc Tag	1762-35-RW-WHT or -BLK	800-0118-05-WHT or -BLK
For 134.2 KHz add suffix to P/N of -134	50mm RO ABS Disc Tag	1762-50-RO-WHT or -BLK	800-0118-06-WHT or -BLK
	50mm RW ABS Disc Tag	1762-50-RW-WHT or -BLK	800-0118-07-WHT or -BLK



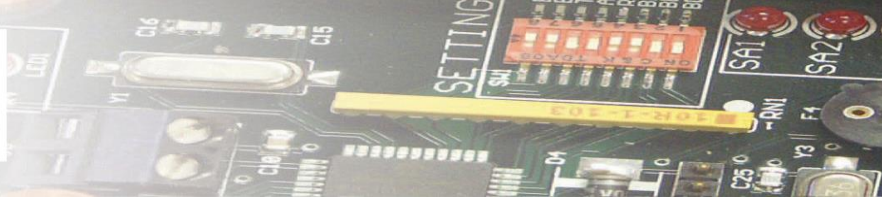
Potted Dome Tags

Model 1763 Series



Specifications:	Dimensions:	20mm x 2mm 50mm x 2mm 5mm center hole	Custom Sizes Available
	Material:	Potting Compound	
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	20mm P/S RO	1763-20-P/S-RO	800-0119-00
RW = Read Write	20mm P/S RW	1763-20-P/S-RW	800-0119-01
P/S = Peel & Stick	50mm P/S RO	1763-50-P/S-RO	800-0102-00
C/H = Center Hole	50mm P/S RW	1763-50-P/S-RW	800-0102-01
For 134.2 KHz	50mm C/H-RO	1763-50-C/H-RO	800-0102-00wHole
add suffix to P/N	50mm C/H RW	1763-50-C/H-RW	800-0102-01wHole
of -134			

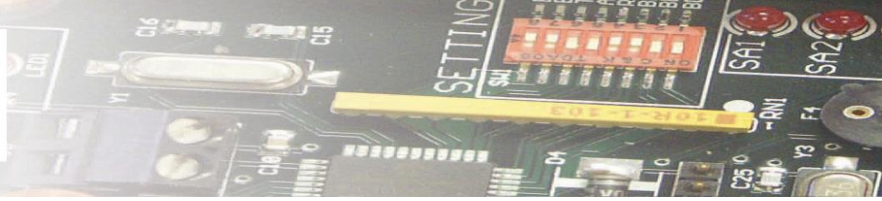


Keyfobs Model 1768 Series



Specifications:	Material:	See Description Below	Customized graphics or logo when applicable
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-65 to P-68	

Part Numbering	Description	Part Number RO	Part Number RW
RO = Read Only	1 Fiberglass Keyfob	800-0109-04-RED or -BLK	800-0109-05-RED or -BLK
RW = Read Write	2 Epoxy Rectangle Small	800-0109-06	800-0109-07
	2 Epoxy Rectangle Large	800-0109-08	800-0109-09
HID compatible add suffix to P/N of -HID	3 Baseball Bat, ABS	800-0109-02	800-0109-03
	4 Leather Keyfob	800-0109-10-RED or -BLK -GRN	800-0109-11-RED or -BLK -GRN
	5 Aquatic Keyfob, ABS	800-0109-00-BLUE or -RED	800-0109-01-BLUE or -RED
	6 Teardrop Keyfob, ABS	800-0109-12-(assorted colors)	800-0109-13 (assorted colors)
	7 Epoxy Surfboard Keyfob	800-0109-14	800-0109-15
	8 Arch Keyfob, PVC Laminate	800-0109-16	800-0109-17



ISO Cards - Personnel Badges

Model 1770 Series



Photographed is ISO Card with Top Slot

Specifications:	Dimensions:	ISO Card - 86mm x 54mm	Clamshell - 86 x 54 x 2mm
	Material:	PVC, Laminate	Optional Printing
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-67	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	ISO Card - No Slot - RO	1770-RO	800-0077-00
RW = Read Write	ISO Card - No Slot - RW	1770-RW	800-0077-01
MS = Mag Swipe	ISO Card - MS - RO	1770-MS-RO	800-0106-00
TS = Top Slot	ISO Card - MS - RW	1770-MS-RW	800-0106-01
CS = Clam Shell	ISO Card - Top Slot - RO	1770-TS-RO	800-0107-00
HID compatible	ISO Card - Top Slot - RW	1770-TS-RW	800-0107-01
add suffix to P/N	Clamshell - Top Slot - RO	1770-CS-RO	800-0108-00
of -HID	Clamshell - Top Slot - RW	1770-CS-RW	800-0108-01



Wrist Band Tags

Model 1771 Series



Specifications:	Material:	Soft Silicon Rubber	ABS w/Velcro Strap
		Private Label Options	ABS w/Watch Strap
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

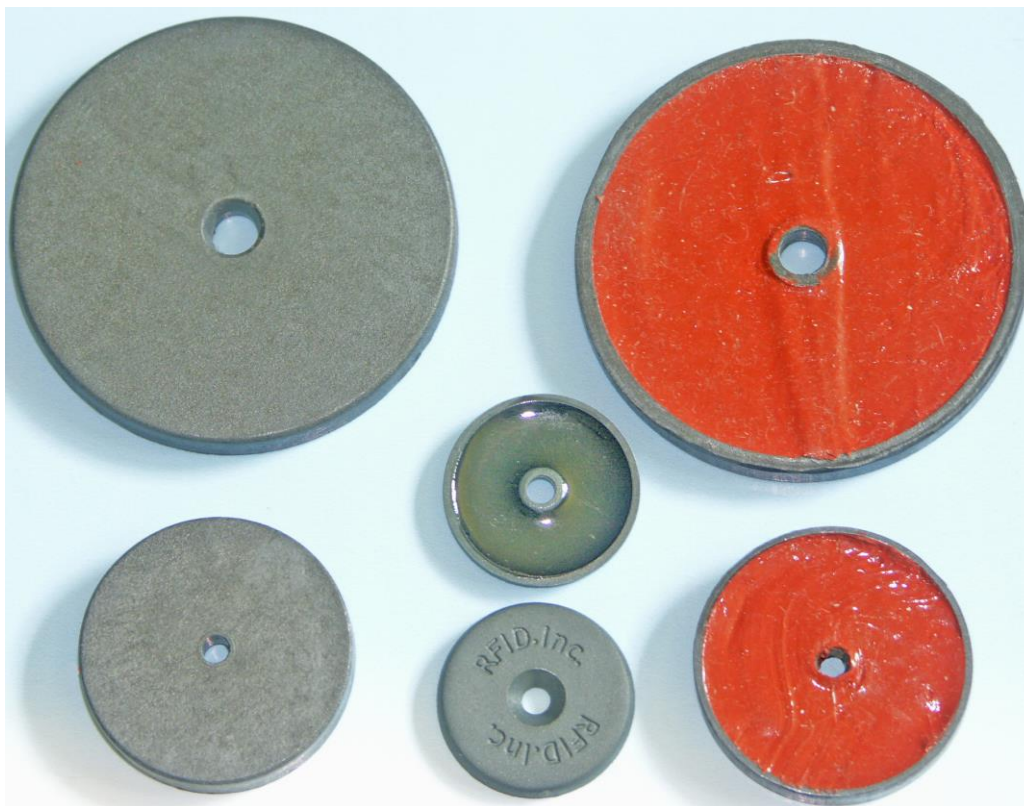
Part Numbering	Description	Model Number	Part Number
RO = Read Only	ABS w/Watch Strap RO	1771-WS-RO	800-0110-00
RW = Read Write	ABS w/Watch Strap RW	1771-WS-RW	800-0110-01
Add -Color to	ABS w/Velcro Strap RO	1771-VL-RO	800-0110-03
Part Number	ABS w/Velcro Strap RW	1771-VL-RW	800-0110-04
HID compatible	Soft Silicon Rubber RO	1771-SL-RO	800-0110-05
add suffix to P/N of -HID	Soft Silicon Rubber RW	1771-SL-RW	800-0110-06





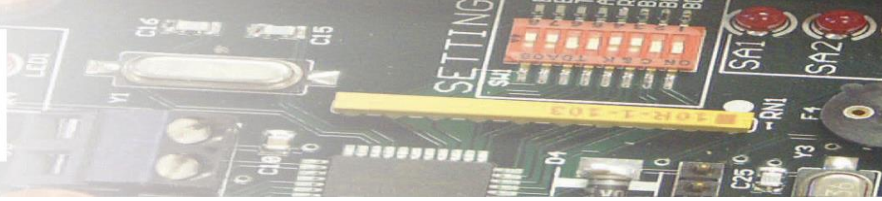
High Temperature Tags

Model 1772 Series



Specifications:	Dimensions:	22mm x 3mm w/3mm center 30mm x 5.8mm w/3mm center 50.2mm x 5.8mm w/5mm center	Countersunk Hole
	Material:	Proprietary	
	Storage Temperature 30 & 50mm Tags w/red fill:	-40°F to 482°F	-40°C to +250°C
	Operating Temperature 30 & 50mm Tags w/red fill:	-40°F to +446°F 15 hours 1x or 30 minute cycles	-40°C to +230°C
	Storage Temperature 22mm Tag w/black fill:	-40°F to +365°F	-40°C to +185°C
	Operating Temperature 22mm Tag w/black fill:	-40°F to +365°F Indefinite	-40°C to +185°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	22mm RO, Black	1772-22-RO	800-0074-00-CS
RW = Read Write	22mm RW, Black	1772-22-RW	800-0074-02-CS
	22mm RW (148 KHz, Grey)	1772-22-RW	800-0080-01-CS (148 KHz)
	30mm RO, Black w/red fill	1772-30-RO	800-0074-07-HT
	30mm RW, Black w/red fill	1772-30-RW	800-0074-06-HT
	50mm RO, Black w/red fill	1772-50-RO	800-0074-08-HT
	50mm RW, Black w/red fill	1772-50-RW	800-0074-05-HT



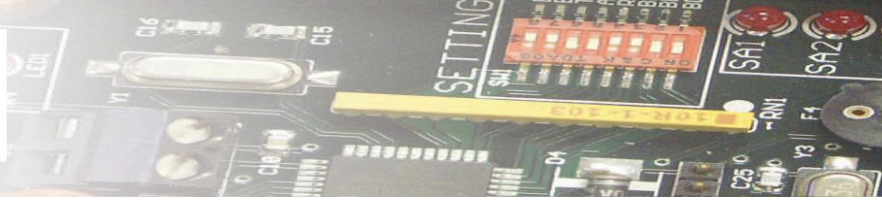
In Metal Pot Core Tag

Model 1773



Specifications:	Dimensions:	8.5mm diameter x 5mm tall	
	Material:	Plastic shell with copper coil	
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	Inert to liquid	

Part Numbering	Description	Model Number	Part Number
RW = Read Write	In Metal Mount Pot Core RW	1773-RW	800-0210-00



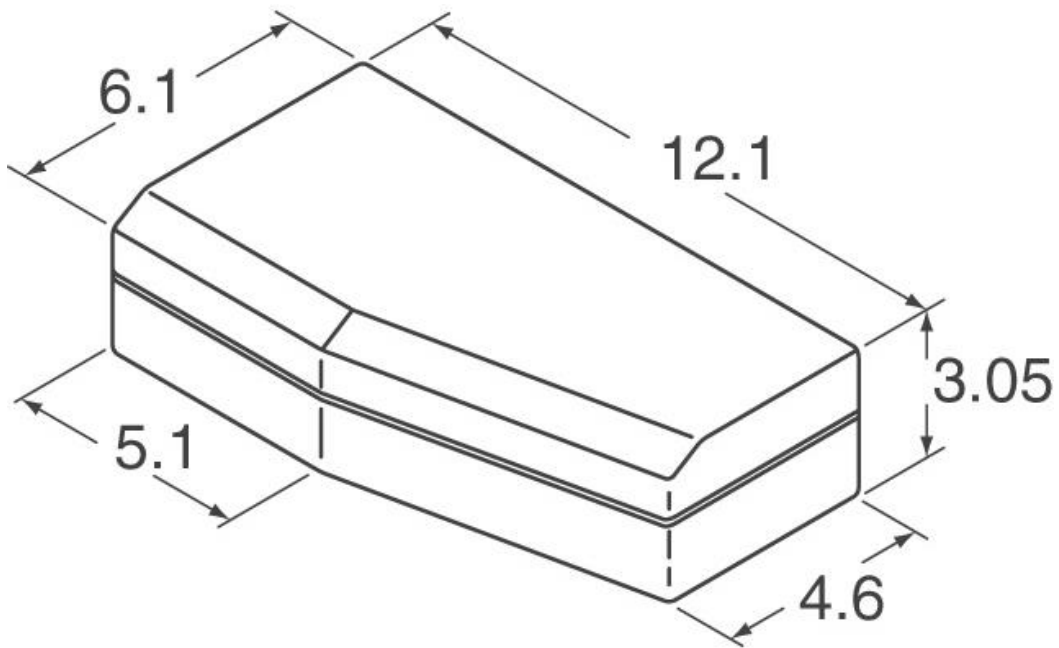
Plastic Wedge or Coffin Tag

Model 1774 Series



Specifications: HID compatible add suffix to P/N of -HID	Dimensions:	12mm x 6mm x 3mm	
	Material:	Plastic	
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RW = Read Write	Coffin Tag	1774-RW	800-0084-01





Glass Ampoule Tags

Model 1775 Series

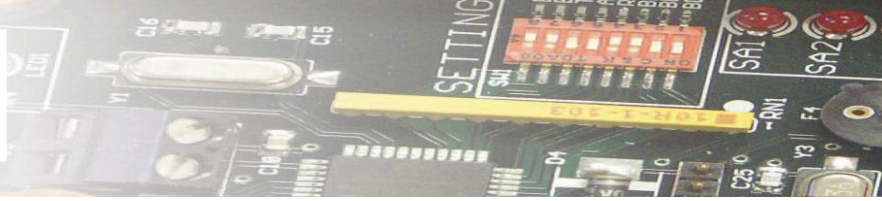


Depicted is 3 x 13 mm

Environment:	Dimensions:	2x12mm, 3x13mm, 3x34mm	Custom Sizes Available
	Material:	Glass	
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	3x13mm Glass Ampoule RO	1775-313-RO	800-0073-00
RW = Read Write	3x13mm Glass Ampoule RW	1775-313-RW	800-0073-01
	2x12mm Glass Ampoule RO	1775-212-RO	800-0073-02
	2x12mm Glass Ampoule RW	1775-212-RW	800-0073-03
For 134.2 KHz add suffix to P/N of -134	3x34mm Glass Ampoule RO	1775-334-RO	800-0073-04
	3x34mm Glass Ampoule RW	1775-334-RW	800-0073-05





Animal Tags - ISO 11784/11785

Model 1776 Series



Specifications:	Dimensions:	Round - 30mm diameter	Square - 71mm x 81mm
		Rectangle - 54mm x 19mm	
	Material:	TPU	
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
ISO 11784			
ISO 11785			
HDX			
FDX & FDX-B	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
All Tags Come With 134.2 KHz Chip	Round Ear Tag	1776-RND	800-0126-00
	Rectangular Ear Tag	1776-RECT	800-0126-01
	Square Ear Tag	1776-SQR	800-0126-02
	Ear Tag Applicator	1776-APP	800-0126-50
	2x12mm Tag w/Syringe	1776-SYR	800-0127-00



Syringe Kit comes with 3 bar code labels



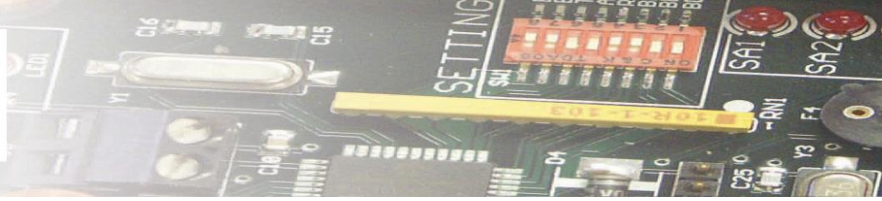
Nail, Screw & Specialty Tags

Model 1777 Series



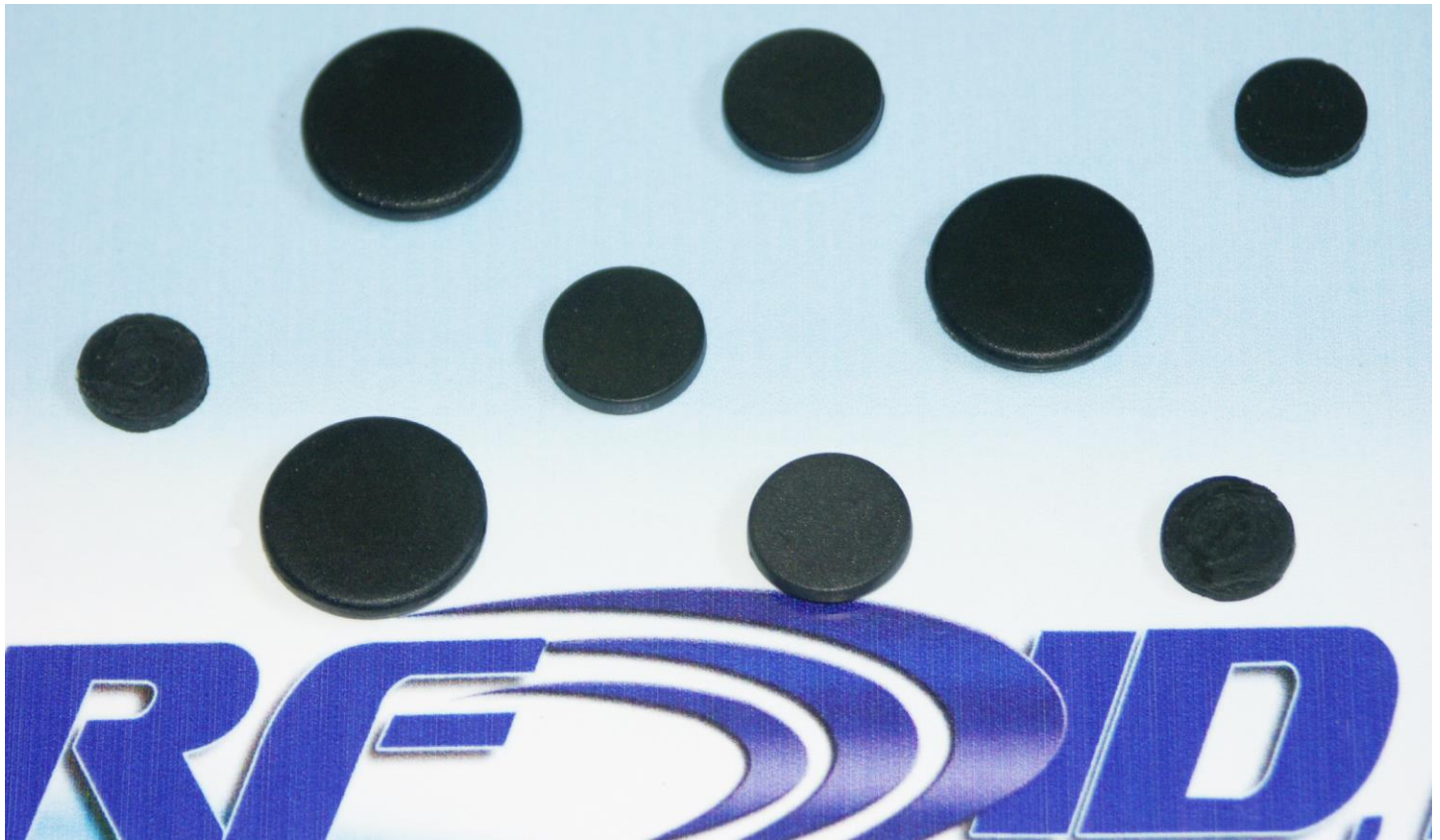
Specifications:	Dimensions:	See Description Below	
	Material:	ABS, PC Nylon	2 Part Epoxy
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only RW = Read Write For 134.2 KHz add suffix to P/N of -134	1 Threaded Plug Tag, 30x15mm RO	1777-TP-RO	800-0130-00
	1 Threaded Plug Tag, 30x15mm RW	1777-TP-RW	800-0130-01
	2 Threaded Bolt Tag, 16x25mm RO	1777-TB16-RO	800-0131-00
	2 Threaded Bolt Tag, 16x25mm RW	1777-TB16RW	800-0131-01
	3 Threaded Screw Tag, 11x26mm RO	1777-TS11-RO	800-0132-00
	3 Threaded Screw Tag, 11x26mm RW	1777-TS11-RW	800-0132-01
	4 Threaded Bolt Tag, 13x25mm RO	1777-TB13-RO	800-0133-00
	4 Threaded Bolt Tag, 13x25mm RW	1777-TB13-RW	800-0133-01
	5 Nail Tag, 35x4mm RO	1777-NT-RO	800-0111-00
	5 Nail Tag, 35x4mm RW	1777-NT-RW	800-0111-01
	6 8.7mm ID Poultry or Cable Tag RO	1777-PC87-RO	800-0140-00
	6 8.7mm ID Poultry or Cable Tag RW	1777-PC87-RW	800-0140-01
	7 7.8mm ID Poultry or Cable Tag RO	1777-PC78-RO	800-0141-00
	7 7.8mm ID Poultry or Cable Tag RW	1777-PC78-RW	800-0141-01
	8 20mm ID Poultry or Cable Tag RO	1777-PC20-RO	800-0142-00
	8 20mm ID Poultry or Cable Tag RW	1777-PC20-RW	800-0142-01



**12mm Pill Tag
Laundry Tags**

**Model 1778 Series
Model 1779 Series**



Specifications:	Dimensions: Laundry Tag	9, 10, 11, 12, 13, 14, 15, 16, 17mm	18, 20, 22, 24, 26, 28, 30mm
	Pill Tag	12mm	Custom Sizes Available
	Material:	PPS + Epoxy	
	Storage Temperature:	-20°F to +248°F indefinite -20°C to +320°C 30 min-200x -20°C to +392°C 30 sec-200x	-20°C to +120°C indefinite -20°C to +160°C 30 min-200x -20°C to +200°C 30 sec-200x
	Operating Temperature:	-40°F to +185°F	-40°C to +85°C
	Ingress Protection:	IP-68	
	Water Pressure:	300 Bars - 5 minutes	45 Bars - 10 hours
	Axial Compression Strength:	1000 N - 10 seconds	
	Radial Compression Strength:	1000 N - 10 seconds	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	xxmm Laundry Tag RO	1779-xx-RO (xx=diameter in mm's)	800-0113-00/xx (dia in mm's)
RW = Read Write	xxmm Laundry Tag RW	1779-xx-RW (xx=diameter in mm's)	800-0113-01/xx (dia in mm's)
	12mm Pill Tag RO	1778-12-RO	800-0112-00
	12mm Pill Tag RW	1778-12-RW	800-0112-01





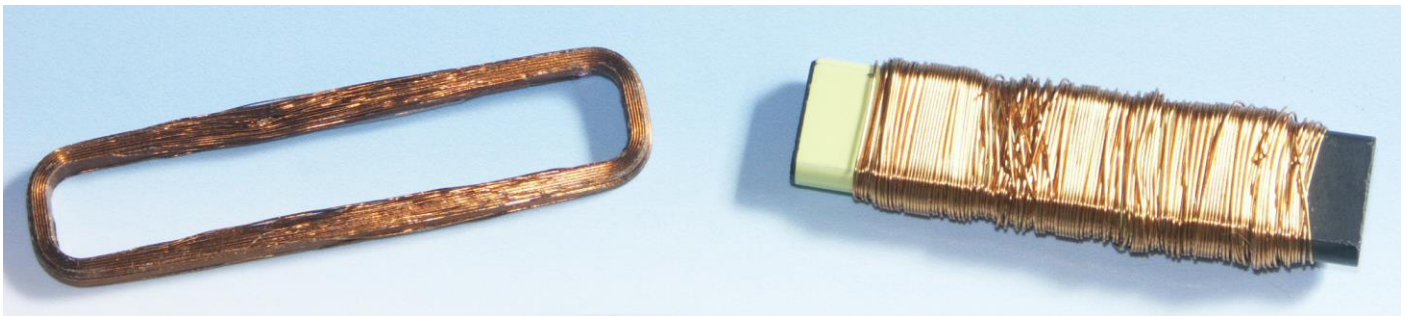
Metal Mount Bar Tags

Models 1781M1 & 1781M2 Series



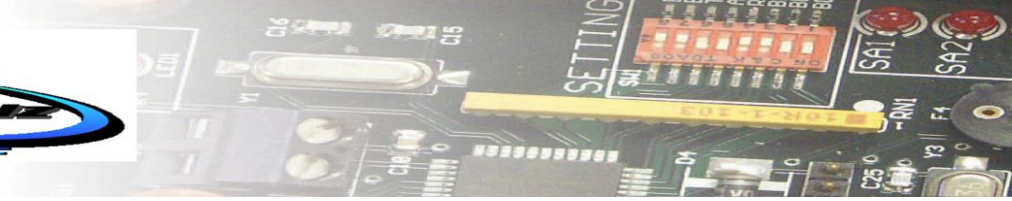
Specifications:	Dimensions:	3.50" x 0.90" x 0.70"	89mm X 23mm x 17mm
	Material:	Rynite PET w/potting compound	
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RW = Read Write	Bar Tag, ferrite coil, 148 KHz	1781M1-RW-148	800-0015-02 (148 KHz)
	Bar Tag, planar coil, 148 KHz	1781M2-RW-148	800-0015-03 (148 KHz)
	Bar Tag, ferrite coil, 125 KHz	1781M1-RW	800-0015-04
	Bar Tag, planar coil, 125 KHz	1781M2-RW	800-0015-05



PLANAR COIL

FERRITE COIL

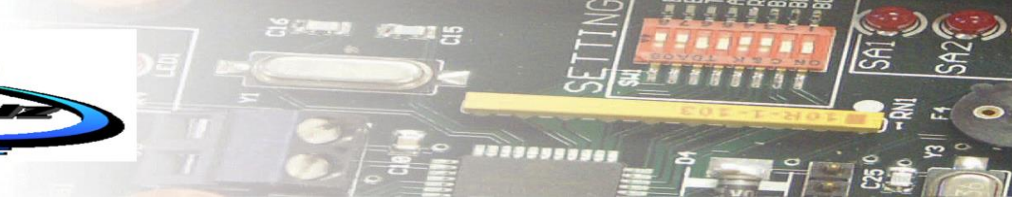


TTT (Tough Thin Tag) Model 1783 Series
With Black Attachment Housing



Specifications:	Dimensions: 1783 Tag	3.38" x 2.13" x 0.16"	86mm x 54mm x 4mm
	1783 Attachment Housing	4.62" x 2.64" x 0.25" w/0.203 hole	117mm x 67mm x 6mm
	Material:	Polycarbonate Halves, Sonic Weld	ABS Attachment Housing
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-67	

Part Numbering	Description	Model Number	Part Number
RW = Read Write	Tough Thin Tag, RW	1783-RW-148	800-0007-03 (148 KHz)
	Tough Thin Tag, RW	1783-RW	800-0007-04
	Attachment Housing	1783H	473-0033-00



Hockey Puck Tag

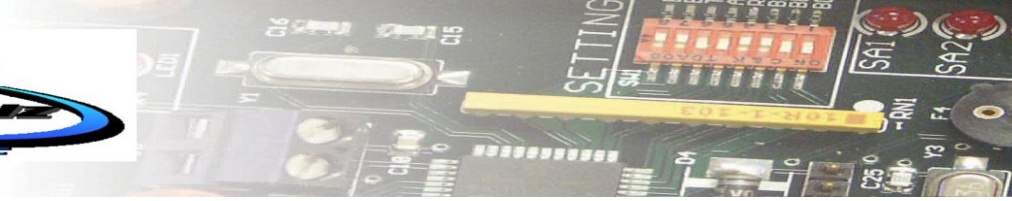
Model 1786 Series



Specifications:	Dimensions:	3.35" x 1.19" w/0.265" holes	85mm x 30mm w/6.7mm holes
	Weight:	4.8 oz.	135 grams
	Material:	Housing: Nylon w/30% Glass Fill	Epoxy: 2 Part Compound
	Storage Temperature:	-40°F to 365°F	-40°C to +185°C
	Operating Temperature:	-40°F to +365°F	-40°C to +185°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	Hockey Puck Tag RW 148 KHz	1786-RW-148	800-0059-00 (148 KHz)
RW = Read Write	Hockey Puck Tag RW 125 KHz	1786-RW-125	800-0059-04





Lipstick Tag

Model 1787 Series



Specifications:	Dimensions:	2.3" x 0.75"	58mm x 19mm
	Material:	Polycarbonate	2 Part Potting Compound
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	Lipstick Tag RW	1787-RW-148	800-0017-02 (148 KHz)
RW = Read Write	Lipstick Tag RW	1787-RW	800-0017-04

Specifically designed for in floor mount, AGV applications.



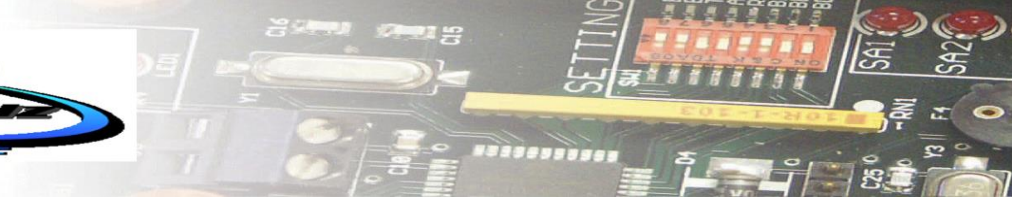
Tank Tag

Model 1788



Specifications:	Dimensions:	1.225" diameter x .0.325"	31mm x 8mm
	Material:	ABS	2 Part Potting Compound
	Storage Temperature:	-40°F to 185°F	-40°C to +85°C
	Operating Temperature:	-40°F to +131°F	-40°C to +55°C
	Ingress Protection:	IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	Cylinder Tank Tag, RO	1788-RO	800-0092-00
RW = Read Write	Cylinder Tank Tag, RW	1788-RW	800-0092-01



**Deck of Cards Tag
Models 1791 & 1791M Series**



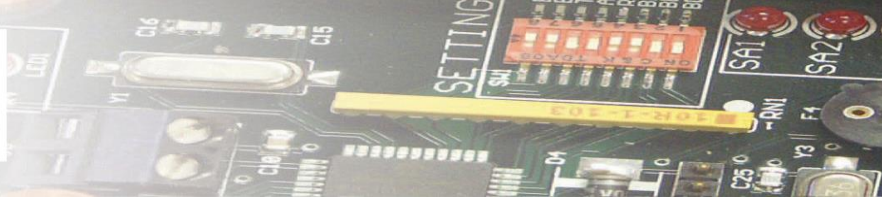
**Frisbee Tag
Model 1795 Series**



Ferrite Coil sits in the center Planar Coil is larger flat Coil

Specifications:	Dimensions:	1791	4" x 2.12" x 0.54" w/0.18"holes	101 x 54mm w/4.6mm holes
		1795	6" diameter x 0.6" w/0.30" holes	152 x 15mm w/7.6mm holes
	Material:		Polycarbonate	2 Part Potting Compound
	Storage Temperature:		-40°F to 185°F	-40°C to +85°C
	Operating Temperature:		-40°F to +131°F	-40°C to +55°C
	Ingress Protection:		IP-68	

Part Numbering	Description	Model Number	Part Number
RO = Read Only	Deck of Cards Tag, Planar Coil	1791-RW-148	800-0020-00 (148 KHz)
RW = Read Write	Deck of Cards Tag, Planar Coil	1791-RW	800-0020-04
	Deck of Cards Tag, Ferrite Coil	1791M-RW-148	800-0020-01 (148 KHz)
	Deck of Cards Tag, Ferrite Coil	1791M-RW	800-0021-04
	Frisbee Tag	1795-RW-148	800-0026-00 (148 KHz)
	Frisbee Tag	1795-RW	800-0026-04



Clear Laminate Monster Tags

Models 1796 & 1796SM Series



The Model 1796SM is shown laying atop the Model 1796.

These Tags were made for the sole purpose of maximizing read ranges when needed.

Specifications:	Dimensions:	1796	8" x 6.75"	203mm x 170mm
		1796SM	5.125" x 3.5625"	130mm x 90mm
	Material:	Clear Laminate		Custom Sizes Available
	Storage Temperature:	-40°F to 185°F		-40°C to +85°C
	Operating Temperature:	-40°F to +131°F		-40°C to +55°C
	Ingress Protection:	IP-67		

Part Numbering	Description	Model Number	Part Number
RO = Read Only	Monster Tag, P/S Tape, RO	1796RO	800-0114-00
RW = Read Write	Monster Tag, P/S Tape, RW	1796-RW	800-0114-01
P/S = Peel & Stick	Small Monster, RO	1796SM-RO	800-0122-00
	Small Monster, RW	1796SM-RW	800-0122-01



Read Range Matrix (in Inches) (Write Range is 5% to 30% less than Read Range dependent upon combination)

Valid only for R3-2 125 KHz Smart Antenna Systems

For R3-1 125 KHz Legacy & R3 148 KHz Legacy Read Ranges, See Those Reader Line Data Sheets

Tag Model Number	Smart Antenna Model	5100	5110	5120	5130	5131	5150	5155	5160	5180	5181
20mm diameter Tags 1760 – 1761 – 1763		1.0	1.25	.50	Dependent	.75	1.5	2.5	--	1.0	1.0
25mm diameter Tags 1761 -		1.0	1.5	.75	On	.75	2.25	3.0	--	1.25	1.0
30mm diameter Tags 1760 – 1761 – 1762		1.25	2.0	1.75	External	1.0	3.5	4.5	--	2.0	1.0
35mm diameter Tags 1761 - 1762		1.5	2.0	1.75	Antenna	1.25	3.75	4.5	1.25	2.0	1.0
50mm diameter Tags 1760 - 1763		2.0	3.75	3.0		1.5	5.5	6.5	5.0	3.25	1.0
1768 Keyfobs (based on average 20mm coil)		1.0	1.25	.5		.75	1.5	2.5	--	1.0	1.0
1770 Personnel Badge, ISO Card		2.0	3.0	3.25		1.5	6.0	7.0	5.25	3.5	1.0
1771 Wrist Bands		1.0	1.25	.5		.75	1.5	2.5	--	1.0	1.0
1772 22mm High Temp		1.25	2.0	1.25		1.0	3.25	4.0	--	1.5	1.0
1772-HT30 High Temp 30mm		1.5	2.0	1.5		1.0	3.5	4.0	1.0	1.0	1.0
1772-HT50 High Temp 50mm		2.0	2.5	2.5		1.5	5.0	5.5	4.5	3.5	1.0
1773 In Metal Pot Core		.25	.25	-		.25	--	--	--	.25	--
1774 Wedge/Coffin		.75	1.5	.50	Dependent	.50	1.25	3.0	--	.75	--
1775 Glass Ampoule (3x13mm)		1.0	1.25	-	On	1.0	1.0	2.0	--	1.25	--
1776 Animal Ear Tag					External						
1778 12mm Pill Tag		.75	1.00	--	Antenna	.50	--	3.25	--	.25	--
1779 Laundry Tag (based on 16mm version)		.75	1.25	.50		.50	1.0	2.0	--	1.0	--
1781M1 Bar Tag, Ferrite coil		1.0	2.25	4.0		.75	5.25	7.0	6.25	2.75	1.0
1781M2 Bar Tag, Planar coil		1.25	2.25	2.0		1.0	4.5	5.5	3.0	2.5	1.0
1783 TTT		2.25	3.5	4.0		1.75	7.0	7.0	7.5	4.0	1.0
1786 Hockey Puck		2.25	3.5	4.0		1.75	7.0	7.0	8.0	4.0	1.0
1787 Lipstick Tag		1.5	2.75	3.25		1.25	5.25	7.0	6.25	2.75	1.0
1788 Tank Tag		1.0	1.5	.50		.75	1.75	2.5	--	1.0	1.0
1791 Deck of Cards Planar Coil		2.25	3.5	4.0		1.75	7.0	7.0	7.5	4.0	1.0
1791M Deck of Cards Ferrite Coil		1.0	2.25	4.0	Dependent	.75	5.25	7.0	6.25	2.75	1.0
1795 Frisbee Tag, 6" diameter		3.0	5.0	7.0	On	2.25	11.0	13.0	14.0	7.5	1.0
1796SM Mini-Monster Tag		2.5	4.0	5.5	External	2.0	9.0	10.0	10.0	5.0	1.0
1796 Monster Tag, 8" x 6.75"		3.0	5.25	8.5	Antenna	2.25	12.0	15.0	15.0	8.0	1.0





Client List (Partial)

USA Medical & Pharmacies:

Abbot Labs
 AmeriPharm
 Amphenol
 Anthem
 Boston Scientific
 Cardinal Health
 CASI
 CDS/Procure
 Cigna Tel-Drug
 CR Bard
 CVS
 Eckerl Drug
 Edward's Life Science
 ExcellerX
 FamilyMeds.com
 Humana
 Intuitive Surgical
 Kaiser Permanente
 McKesson SI/Baker
 Medtronic
 Optum Rx
 PacifiCare
 Prescription Solutions
 Providence Health Care
 Rite Aid
 Rx Direct
 Smith's Medical
 Tel-Drug
 Veteran's Admin
 Walgreens
 Wyeth Labs

USA Automotive:

Allen Bradley
 ATS
 Bendix
 Caterpillar
 Cummins Engines
 Daimler AG
 Decoma
 Delphi
 Detroit Diesel
 Federal Mogul
 Ford Motor Company
 General Motors
 Hirotec
 Honda
 Howmet
 John Deere
 Meridian Automotive
 Michelin
 Neaton Automotive
 Polaris Industries
 Toyota
 Trident Automotive
 Visteon
 Volvo

USA WIP:

Alcoa
 Amana
 AT&T
 Avtron
 BAE Automation
 Boeing Corporation
 BorgWarner
 BW Rogers
 Carlton-Bates
 CEI Automation
 Charbroil
 Copeland
 Cutler-Hammer
 Eastman Kodak
 EI DuPont
 Electrolux
 Eskay
 Esselte
 Estee Lauder
 FlexLink Conveyors
 Frigidaire
 General Electric
 Ingersoll Rand
 Kim Automation
 Knapp
 Krauss-Maffei
 Lear Jets
 Marshall's
 Maytag
 Motorola
 OshKosh B'Gosh
 Osram Sylvania
 Pepsi (Quaker)
 Proctor & Gamble
 Rockwell
 Rockwell Automation
 Sears
 SI/Handling Systems
 Square D Company
 Siemens
 Stanley Tools
 Swisslog
 Texas Instruments
 Schick
 Tempur-Pedic
 Thomson Electronics
 TJ Maxx
 TRW
 Valeo Sylvania
 WEPKO
 Whirlpool
 Wunderlich-Malec

USA Discrete

Process Controls:

Ace Hardware
 Cargill
 Conagra
 Exxon Mobil
 Inland Steel
 Nestle
 Nippon Steel
 POM Wonderful
 U.S. Steel

USA Routing/ASRS:

AGV Products
 Amerden
 Anheuser-Busch
 Jervis Webb
 JBT
 Lemans
 Los Angeles Times
 Prilgrim's Pride
 The Denver Post
 The Boston Globe
 Transbotics
 Toyota AGV
 U.S. Air Force

USA Entertainment

Customer Loyalty:

Bronx Zoo
 CBS Television
 Caesar's High Roller
 Ferris Wheel
 Electrosonic
 Hard Rock Café
 Heywood Engineering
 Maltbie
 NASCAR Hall of Fame
 Northwest Airlines
 Six Flags
 Smithsonian Museum
 Solomon Group
 Strategic Systems
 Technomedia
 Vail Resorts
 Walt Disney World
 WWII Museum

USA Other:

Atmel/Temic
 EFI Vutek
 H.E. Butt Grocery
 Hewlett Packard
 Honeywell
 Los Alamos Labs
 Magic Chef
 NASA
 Nokia

Sandia National Labs

Timken
 Tyco
 U.S. Navy
 Unilever

AVI Scale Operations:

American Scale
 Apple Valley Scale
 Avery Weigh-Tronix
 Carlton Scale
 Halliburton
 Industrial Scale Systems
 Meldrum Scale
 Pacific Industrial Scale
 Rice Lake Weighing
 Sanstrom Scale
 Standard Scale
 Wingfield Scale

Asia:

IceGen (dist. India)
 Electronic Corporation of India
 FTRD (dist. China)
 Tata Consultancy
 Toyota (Japan)

Australia/Africa:

Alcoa World Alumina
 BHP Billiton Iron Ore
 Byrncut Mining
 CMA Systems
 Dampier Salt
 Fortescue Metals
 Hamersley Iron
 Harmonic (dist. S. Africa)
 Logitech Consultants
 Newcrest Telfer Gold Mine
 Pacific Automation (dist. AUS)
 Port Waratah
 Queens Creek
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 Sinclair Knight Merz
 ThyssenKrupp
 Tomago Aluminum
 Voest-Alpine

Canada:

AG Simpson Automotive
 AMT Mach Tools (dist, Tor)
 ArcelorMittal
 Aurora Bar Code
 City of Fort St. John
 CraneSmart
 Kellogg's Cereal
 Keilhauer
 LSZ PaperTech
 Rotalec (distributor)
 U.S. Steel

Central & South America:

Fenwal (Dominican Rep.)
 General Electric (Mexico)
 Hylsa (Mexico)
 IdeaNet (distributor, Chile)
 Lasso (distributor, Mexico)
 MABE Leiser (Mexico)
 SCI Sanmina (Mexico)
 Retex (Peru)
 RSI (Mexico)
 TecWise (distributor, Brazil)
 TRW (Mexico)

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BMW (UK)
 Efacec (Portugal)
 FQ (distributor, Spain)
 Infos (distributor, Portugal)
 London Heathrow Airport
 (Baggage)
 MDA Systems (France)
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 ProveIT
 (distributor, UK)
 SCI Sanmina (Hungary)
 Securitas (Sweden)
 Tempore (Austria)
 TRW (UK & Germany)

USA Distributors:

Allied Automation (IN, KY)
 Anixter
 Applied Automation (NY)
 Applied Controls (PA, MD, DE)
 Automation, Inc. (MN, ND, SD, IA, WI)
 Azure Solutions (east MI)
 Burns Controls (TX)
 C&E Sales (IN, OH, KY)
 CodeSource (TX)
 Cornerstone (TN, AL, GA, NC, SC, MS)
 Gibson Eng. (MA, CT, ME, RI)
 Industrial Controls (west MI)
 Midwest Engineering (Ohio)
 MSI Tech (CO, UT, AZ, NV, NM)
 Pacific Technical (SoCal)
 Power Motion (MO, KS, AK, OK, LA)
 Power/mation (MN, IA, WI, IL)
 Precise Motion (FL)
 Proud Company (western PA)
 PRI (NY, NJ)
 RR Floody (IL, IA)
 Taylor Data (SC, NC, FL)

