

series 8.2

400 Class Freezer Label

8.2 MHz RF EAS Labels

Series 8.2 provides users with high quality, high performance EAS anti-theft self adhesive labels. These labels are fully compatible with all 8.2 MHz systems and deactivators, regardless of manufacturer. The 400 class freezer label has been engineered for use in low temperature conditions, and contains a plasticised coating to prevent interaction of dyes with moisture. The adhesive is also designed for application to product that may be frozen.

Series 8.2 labels have been engineered and manufactured to meet stringent quality and performance specifications for both retailers and source tagging manufacturers. Each label is precisely etched, laminated, processed, and placed on the release liner. Label specifications and manufacturing tolerances are tightly controlled. Each label is 100% tested to ensure quality.

Series 8.2 400 Class labels come in 1000 label rolls for in-store and/or manual tagging application... and in an 8000 label roll for automatic application.

These labels have gone through extensive testing and evaluation by retail users, source tagging manufacturers, label converters, EAS manufacturers and distributors, and independent laboratories. Series 8.2 delivers the quality and performance required to be the 8.2MHz label supply for retailers and source tagging solutions providers.

Features

8.2 MHz Labels

- 100% Compatible with all 8.2MHz systems and deactivators
- Product Specifications (Amplitude, Frequency, and Q) yield outstanding detection and deactivation performance
- Aggressive hot melt rubber-based adhesive
- High quality paper for superior look, security, and printing
- Plain, Barcode, Printable, or Custom versions offered
- 1000 pc roll format for manual tagging and 8000pc roll format for automatic application
- Durable enough for temperature extremes



8.2MHz label

Product Codes:

RF.4x4.1.20FRZP 1000pc roll. Plain.

This label is not suitable for use in a microwave and must be removed

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Series 8.2 Security Label is a trademark of TAG Company

400 Class (4 x 4 Dimension)

8.2 MHz Labels



Label Dimension Specifications

Length	40mm (1.57in)
Width	40mm (1.57in)
Thickness (excluding liner)	
Maximum	Barcode 171µm (±20µm) 6.73mil (±0.78mil) Plain 151µm (±20µm) 5.95mil (±0.78mil)
Thickness (including liner)	
Maximum	Barcode 186µm (±20µm) 7.32mil (±0.78mil) Plain 166µm (±20µm) 6.54mil (±0.78mil)
Liner Width	42mm (1.65in)
Label Repeat	42mm (1.65in)
Label Spacing	2mm (±0.3mm) 0.079in (±11.8mil)

Electrical Specifications

Frequency	8.2 MHz ±328kHz
Amplitude	Q > 65
Effective Volume	≥ 2000cm ³
Deactivation Strength	0.9 A/m - 1.5 A/m
Field Strength:	
Operating Distance	Up to 1.5m (5 ft) in Dual Pedestal System

Material Specifications

Materials:

Substrate	Polyethylene, 20µm (0.79mil)
Paper Density:	90g/m ² (2.66oz/yd ²) thick reinforced paper
Inductor Side	Aluminum
Capacitor Side	Aluminum

Adhesive:

Type	Rubber-based, hot melt adhesive
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Environmental Specifications

Shelf Life:	Two years from date of manufacture when labels are stored between 10° to 25°C (50° to 77°F) and 35 to 65% RH
Temperature:	Maximum storage temperature not to exceed 50°C (120°F) for 96 hours at 80% RH
Humidity:	Unaffected by 80% humidity up to 96 hours
Application Temp:	Above 0°C (32°F) to 38°C (100°F) and 90% RH at the application head.
Recommended ambient temperature is	15° - 32°C (60° - 90°F)
Recommended ambient humidity is	50 - 70%
AFC400 freezer label operates to temperatures of	-20°

Quality Specifications

RoHS Certification: Certificate of Conformity RoHS 2002/95/EC

ISO Certification: ISO 9001:2000 for design and manufacture of radio frequency labels.

Quality Control Series 8.2 labels are 100% inspected to ensure 100% (-1%) detection. Labels are inspected with state-of-the-art automatic in-line testers. ISO standardized sampling is used to inspect and deliver quality levels for deactivation performance and mechanical defects of all label rolls.

Roll Specifications

Labels Per Roll	1000 labels
Roll Length	≈ 42.5m (139' 5in)
Diameter Inner Core	76.2mm (3in)
Roll Outer	145mm (5.7in)
Roll Weight	0.67kg (1.48lb)
Case Weight	13.45kg (29.7lb)
Rolls per Case	20
Labels per Case	20,000
Case Dimension	47cm x 32 cm x 17cm
Cases per Pallet	45