

series 8.2



500 Class (5 x 5 Diameter)

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 8.2MHz systems and deactivators, regardless of manufacturer.

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 8.2 500 Class labels come in 1000 label rolls for in-store and/or manual tagging 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
- Direct thermal printable labels are available



8.2MHz label

Product Codes:

- RF.5x5.1.20P White, 1000 pc rolls
- RF.5x5.1.20B Barcode, 1000 pc rolls

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Series 8.2 Security Label is a trademark of TAG Company

500 Class (5 x 5 Diameter)

8.2 MHz Labels



Label Dimension Specifications

Length	50 mm (1.97")
Width	48 mm (1.89")
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	49mm (1.93")
Label Repeat	52mm (2.05")
Label Spacing	2mm (±0.3mm) 0.079in (±11.8mil)

Electrical Specifications

Frequency	8.2 MHz ±328kHz
Amplitude	Q ≥ 75
Effective Volume	≥ 2400cm ³
Deactivation Strength	0.9 A/m - 1.5 A/m
Field Strength:	
Operating Distance	Up to 1.7m (5'7") 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%

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.
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Roll Specifications

Labels Per Roll	1000 labels
Roll Length	≈ 52.5m (172' 3")
Inner Core Diameter	76.2mm (3")
Roll Outer Diameter	164 mm (6.5")
Roll Weight	1.04 kg (2.29lb)
Case Weight	21.2kg (46.7lb)
Rolls per Case	20
Labels per Case	20,000
Case Dimension	36 x 36 x 28.5cm (14.2" x 14.2" x 11.2")
Cases per Pallet	45