WM71004-6-NF1
4Kbit Wireless Memory Inlay

RaMTRON

DESCRIPTION

The WM71004-6-NF1 is an inlay based on the WM71004-DG packaged device. Like all MaxArias wireless memories based on F-RAM memory technology the WM71004-6-NF1 features:

- Large User Memory for Data-Rich Applications
- High Speed Writes
- Increased Write Range
- High Gamma Tolerance

This datasheet covers the specification relevant to the inlay. For the full specifications please refer to the WM710xx datasheet.

ORDERING INFORMATION

Product	Description
WM71004-6-NF1	Near Field Inlay with 4Kb memory
WM71004-6-NF1-Roll	Roll of inlays. 2.5K inlays per reel.

SPECIFICATIONS

**For a full list of specifications please refer to the WM710xx datasheet.**

Environmental Specifications	
Operational Temperature Range	-40°C to +85°C
Shelf Life	2 years
Recommended Storage Conditions	-25°C to +50°C, 20% to 90% RH, non-condensing

Product Specifications	
Operating Frequency Range	860MHz to 960MHz
Peak Operating Frequency	915MHz

Material Specifications
Aluminum/Copper/Ink on 0.0508 mm (0.002") PET with anti-tarnish coating, photo etched.

Care should be exercised when handling the WM71004-6-NF1. Users should take ESD precautions to prevent ESD discharges on the inlay antenna.

MECHANICAL DRAWINGS
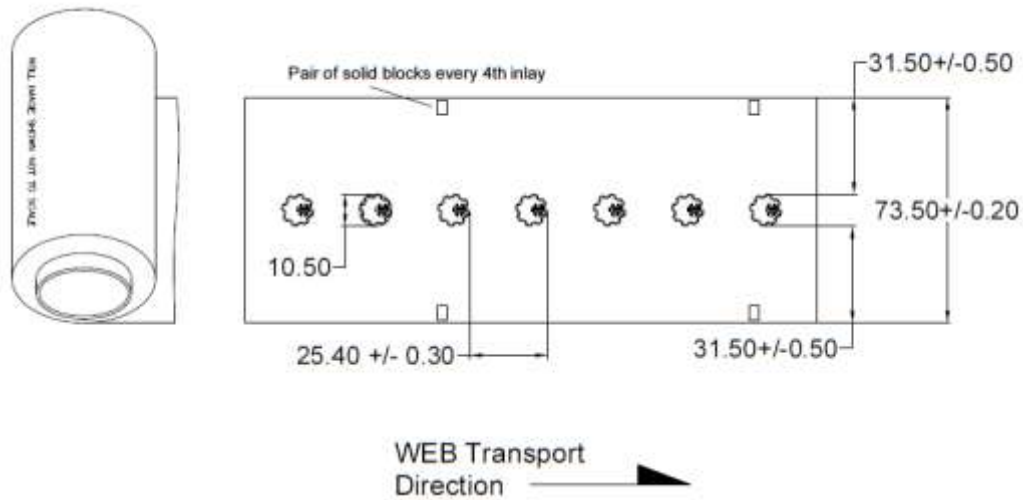
Notes:
1. Conductor side of antenna is shown face up.
2. In-Progression image requirement = 21 antenna rows. Tolerance ±0.3mm between prints.
3. Core Length: 74.2 ±3.8mm (2.9" ± 0.15")
4. Core ID: 76.97 ±0.25mm (3.00" ±0.125")
5. Core wall thickness: 3.18 +3.0/-0.0 mm (0.125" +0.12/-0.00")
6. Antenna conductor unwinds facing toward core
7. Smallest Antenna feature .0.076mm (0.003")

SHIPMENT DETAILS

WM71004-6-NF1 parts will be cut from the roll unless a complete roll is ordered (WM71004-6-NF1-Roll).

Some inlays on the roll may not be functional. These will be indicated with a red ink dot beside the faulty inlay.

REVISION HISTORY

Revision	Date	Summary
0.1	9/30/2011	Initial release.