

## SHORTDIPOLE

Excellent global performance on various materials.



ShortDipole tags and inlays are specially designed for supply chain management, apparel and brand protection applications offering excellent global performance also on lower detuning materials like cardboard and plastic.

### Benefits:

- ▶ Excellent global performance in various materials.
- ▶ Backscatter strength reduction and read range reduction (G2iL+).
- ▶ Optimum size product for 4 inch wide converted labels.
- ▶ ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.
- ▶ Unique TID.

### Overview

#### Operating Frequency

860 - 960 MHz

#### Integrated Circuit (IC)

NXP U-Code G2iL

#### Antenna Size

92 x 11 mm (3.62 x 0.43 in)

#### Die-cut Size

97 x 15 mm (3.82 x 0.59 in)

#### International Standards

EPC Class 1 Gen 2

ISO 18000-6C

#### Quality Assurance

100% performance tested

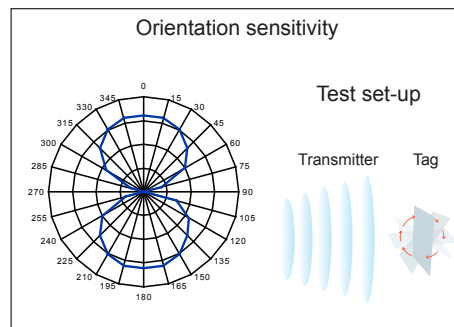
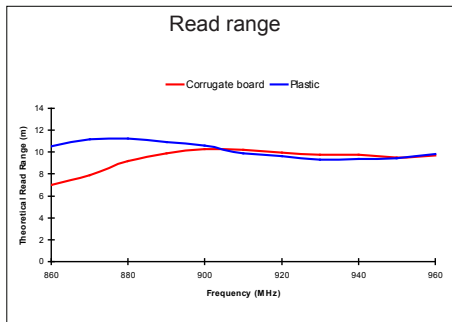
### Application Areas

- ▶ Apparel
- ▶ Brand Protection
- ▶ Industrial Automation
- ▶ Supply Chain Management
- ▶ Sports Timing

## SHORTDIPOLE

| Technical Features   |  |
|--|--|
| IC   | NXP U-Code G2iL  |
| Memory   | EPC memory 128 bit                                     |
| Frequency  | 860-960 MHz  |
| Antenna Size   | 92 x 11 mm / 3.62 x 0.43"                              |
| Die-cut Size   | 97 x 15 mm / 3.82 x 0.59"                              |
| Web Width  | 100 mm / 3.94"   |
| Operating Temperature  | -40°C to 85°C / -40°F to 185°F                         |
| Bending Diameter (D)   | > 50 mm, tension max. 10 N                             |
| Delivery Formats   | Dry inlay, wet inlay, tag                              |
| Adhesive   | Acrylic, water borne adhesive                          |
| Adhesive Usage Temperature                                     | min. -20°C to 80°C / min. -4°F to 176°F                |
| Qty/Reel   | 20,000 dry or wet inlays per reel, 5,000 tags per reel |
| Core Size  | 76 mm / 3"   |
| Shelf Life: minimum of 2 years from the date of manufacture in | 20°C / 68°F, 50% RH                                    |

SMARTRAC TECHNOLOGY GROUP uses three different qualification methods to evaluate the quality and reliability of RFID inlay and tag products. Products are tested according to IEC 60068-2-67 (temperature and humidity), JEDEC22-A104-B (temperature cycling) and an in-house developed bending test.



All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.



RoHS CE

For further information, please contact our sales representatives:

**Sales Europe**  
 SMARTRAC TECHNOLOGY GROUP  
 Hanauer Landstrasse 291a  
 60314 Frankfurt am Main  
 Germany  
 Tel. +49 69 904 3579 1011  
 Fax +49 69 904 3579 1015  
 sales.emea@smartrac-group.com

**Sales Americas**  
 SMARTRAC TECHNOLOGY Fletcher Inc.  
 267 Cane Creek Road  
 Fletcher, NC 28732  
 United States of America  
 Tel. +1 866 901 7343  
 Fax +1 828 651 6063  
 sales.americas@smartrac-group.com

**Sales APAC**  
 SMARTRAC TECHNOLOGY PTE. Ltd.  
 SINGAPORE  
 6 Greenleaf Walk  
 Amsterdam Building 2-8  
 Singapore 279226  
 Tel. +60 4 489 36-0  
 Fax +60 4 489 36-50  
 sales.apac@smartrac-group.com