FLEXWAVE UHF Metal Label

The FLEXWAVE flexible and printable RFID label which is compatible with metal and liquid-rich environment, its thin and light shape makes it easy to attach to curved surfaces such as cylinders, pipes, and metal containers and fixed assets. Widely used in product certification asset tracking, logistics tracking, anti-counterfeiting of valuables, and medical asset management to improve the operational efficiency and inventory management for manufacturers and retailers.

APPLICATIONS

- Office equipment
- Indoor Device ULD identification
- Retail and Warehousing

FEATURES

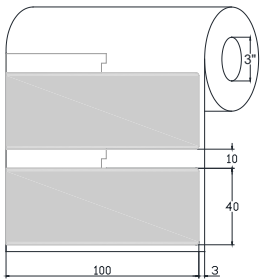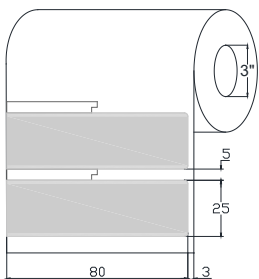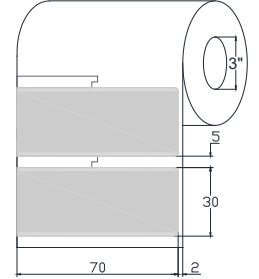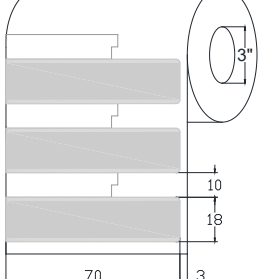- Cost effective
- RFID Printable
- Various easily mounting systems
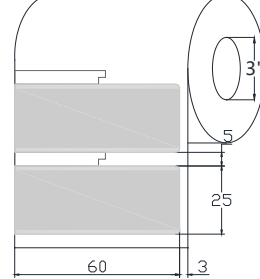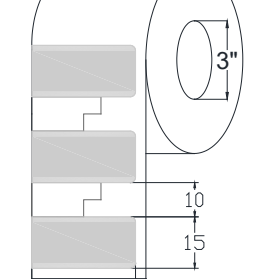
RF Specifications

MODEL	FLEXWAVE X40	FLEXWAVE 825	FLEXWAVE 730	FLEXWAVE 718	FLEXWAVE 625	FLEXWAVE 315
RF protocol	ISO18000-6C, EPC Class 1 Gen2					
Operating frequency	865-868MHz (EU); 902-928MHz (US)					
Chip type	UCODE 9	Monza R6	UCODE 8	UCODE 9	Monza R6	Monza R6
Memory configuration	96-Bits EPC 96-Bits Unique TID	96-Bits EPC 96-Bits Unique TID	128-Bits EPC 96-Bits Unique TID	96-Bits EPC 96-Bits Unique TID	96-Bits EPC 96-Bits Unique TID	96-Bits EPC 96-Bits Unique TID
Read range on metal (2W ERP)[1]	Up to 10 M	Up to 6 M	Up to 7 M	Up to 5 M	Up to 4 M	Up to 1 .5M
Read range off metal (2W ERP)[1]	Up to 6 M	Up to 3 M	Up to 4 M	Up to 2.5 M	Up to 2.5 M	Up to 0.6M
Polarization	Linear					

[1]Read ranges are achieved by lab testing methodology, the read range will vary with output power of reader and applications.

Physical Specifications

MODEL	FLEXWAVE X40	FLEXWAVE 825	FLEXWAVE 730	FLEXWAVE 718	FLEXWAVE 625	FLEXWAVE 315
Material	Bright white PET					
Dimensions (mm)	100 × 40 × 1.25	80 × 25 × 1.25	70 × 30 × 1.3	70 × 18 × 1 .3	60 × 25 × 1.25	30 × 15 × 1.25
Dimensions (inch)	3.94 × 1.58 × 0.049	3.15 × 0.98 × 0.049	2.76 × 1.18 × 0.051	2.76 × 0.71 × 0.051	2.36 × 0.98 × 0.049	1.18 × 0.59 × 0.049
Packing of quantity	250 / per roll	500 / per roll	500 / per roll	500 / per roll	500 / per roll	500 / per roll
Layout of rolls						
Printer supported	Zebra ZT411 / SATO CL4NX Plus / Postek TX3R / Toshiba SX-5					

Operational and Environmental Specifications

Operational temperature	-40°F (-40°C) to +185°F (+85°C)
Storage temperature	-40°F (-40°C) to +140°F (+60°C)
Operational humidity	5% to 95% non-condensing
IP Rating	IP68, at 20°C and 3.3 ft (1 m) 12 hours tested
Shock and Vibration	MIL STD 810-G
Drop spec	Multiple drops to concrete: 6.6 ft./2 m, across the operating temperature range
Chemical resistance:[2] • Motor oil exposure • Salt water (salinity 15%) exposure • Sulfuric acid (10%, pH 2) exposure • NaOH (10%, pH 13) exposure	No significant changes after[2]: • 168 hours • 48 hours • 48 hours • 48 hours

[2]The chemical resistance is based on the concentration of solutions and application environment, please contact us for further details on chemical.

Mounting

Background adhesive	High performance acrylic adhesive optimized for metal and painted metal surfaces

Order Information

MODEL	FLEXWAVE X40	FLEXWAVE 825	FLEXWAVE 730	FLEXWAVE 718	FLEXWAVE 625	FLEXWAVE 315
EMEA	WJT-F0100-1	WJT-F0200-1	WJT-F0500-1	WJT-F0600-1	WJT-F0300-1	WJT-F0400-1
CN/US	WJT-F0100-2	WJT-F0200-2	WJT-F0500-2	WJT-F0600-2	WJT-F0300-2	WJT-F0400-2

Others

Options	Per-Encoding, Printing
Warranty	1 year

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use.