ID TECH
IDENTITY AND SECURITY

IDT STI4
Solar Tags

IDT STI4 is a high performance Tag widely used for Solar applications. Designed to work well in a challenging dielectric environments. With innovative antenna design, it delivers industry leading EPC Gen 2 Performance. These tags provide absolute reliability and accuracy, with superior read rates on solar panels and modules. They are specifically designed for Solar Panels with long lasting capability in harsh environment. These tags are MNRE compliant.
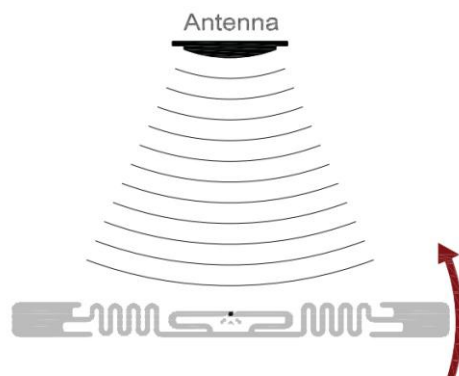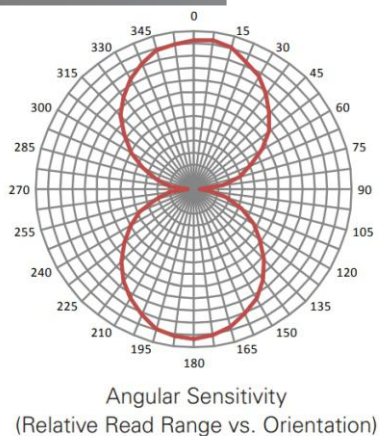
PHYSICAL PARAMETERS

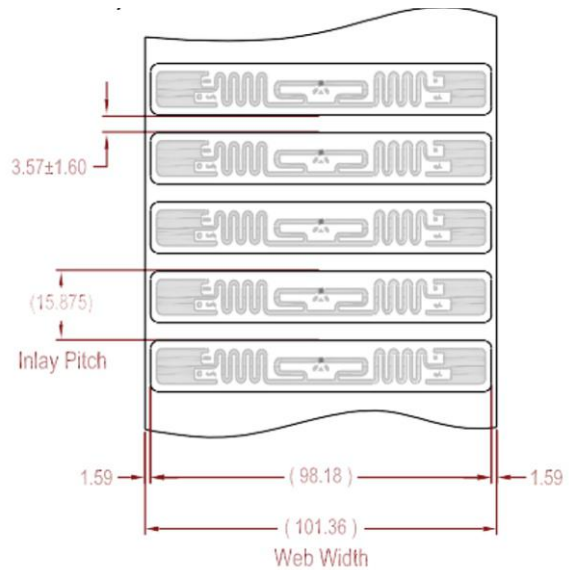|	
Antenna Dimesions	94.80 mm X 8.15 mm
Tag Dimensions	98.18 mm X 12.31 mm
Encasement / Material	PET
Packaging	ROLL FORM

RF SPECIFICATIONS

Protocol	ISO/IEC 18000-6C EPC GLOBAL CLASS 1 GEN 2
Operating Frequency	840-960 MHZ
Read Range Fixed Reader	UPTO 10M (READER DEPENDENT)
Read Range Handheld Reader	UPTO 4M (READER DEPENDENT)
IC Type	ALIEN HIGGS 3/4, IMPINJ M4QT, NXP UCODE 7/8
EPC Memory	96-480 BITS
User Memory	512 BITS

RADIATION PATTERNS

Angular Sensitivity
(Relative Read Range vs. Orientation)

Antenna

Angular Sensitivity
Inlay is rotated in the x, y, plane about the z axis
(tag shown at 0° with respect to face of antenna)

RFID TAG DIMENSION

3.57±1.60

(15.875)

Inlay Pitch

1.59 (98.18) 1.59

(101.36)

Web Width

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	−40°F to +158°F [−40°C to +70°C]
Storage Temperature	−13°F to 122°F [−25°C to +50°C]
IP Rating	NA
Resistance	UV PROTECTED
Humidity	20% to 90% RH Non-condensing

PERSONALISATION

Pre-Encoding	ENCODING AS PER MNRE GUIDELEINES

ORDER INFORMATION

Part No.	IDT.RF.T.STL.4

APPLICATION AREA

Solar PV Modules

Solar Power Plants

Supply Chain

Warehousing

Item Level Identification

Manufacturing