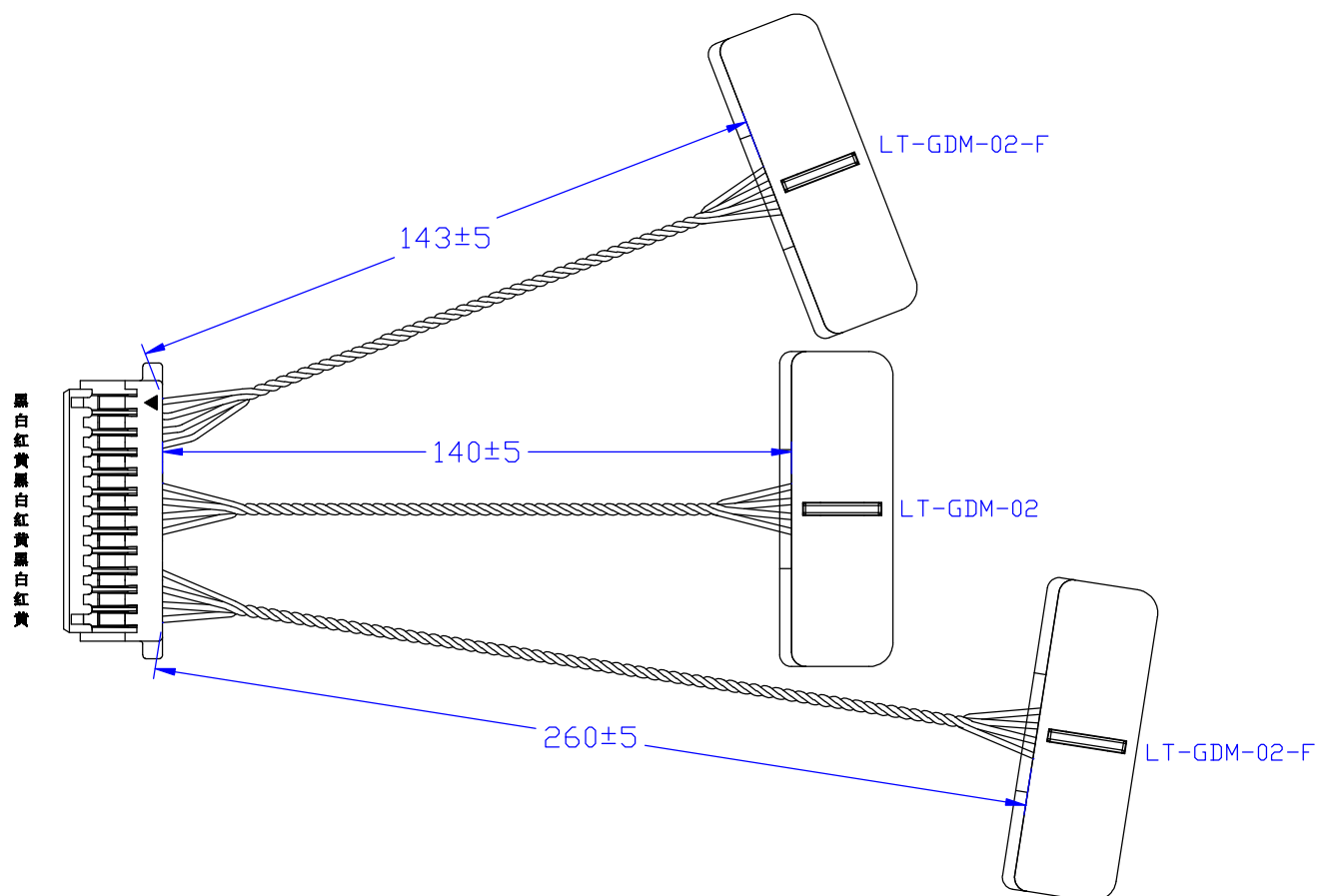




Notes:

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.50\text{mm}$ unless otherwise noted.
3. The size marked on the drawing is Ground-Detecting Module.
4. Specifications are subject to change without notice.

Features

Pb free product—RoHS compliant

Fast response time

High sensitivity

Invisible wavelength =940nm

Integration structure

The four pins of the connector and the corresponding PCB pads are filled with silicone

Typical Applications

Intelligent Sweeping Robot

Absolute Maximum Ratings at Ta=25

Parameter		Symbol	Ratings	Unit
Input	Power Dissipation	Pd	170	mW
	Reverse Voltage	V _R	5	V
	Forward Current	I _F	100	mA
	Peak Forward Current ^{*1}	I _{FP}	250	mA
Output	Collector Power Dissipation	Pc	75	mW
	Collector Current	I _C	20	mA
	Collector-Emitter Voltage	V _{CEO}	30	V
	Emitter-Collector Voltage	V _{ECO}	5	V
Electrostatic Discharge (HBM)		ESD	4000	V
Operating Temperature Range		T _{opr}	-25 to + 65	
Storage Temperature Range		T _{stg}	-40 to + 85	

Electrical Optical Characteristics at Ta=25

Input						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
						$f=50\text{mA}$
Forward Voltage	V_F	---	1.35	1.60	V	$I_F=50\text{mA}$
Reverse Current	I_R	---	---	10	μA	$V_R=5\text{V}$

Output						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector-Emitter Breakdown Voltage	BV_{CEO}	30	---	---	V	$I_C=0.1\text{mA}$ $E_e=0\text{mW/cm}^2$
Emitter-Collector Breakdown Voltage	BV_{ECO}	5	---	---	V	$I_E=0.1\text{mA}$ $E_e=0\text{mW/cm}^2$
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	---	---	0.4	V	$I_C=2\text{mA}$ $E_e=1.0\text{mW/cm}^2$
Rise Time	T_r					$V_{CC}=5\text{V}$ R_L $I_C=1\text{mA}$
Fall Time	T_f					
Collector Dark Current	I_{CEO}	---	---	100	nA	$V_{CE}=10\text{V}$ $E_e=0\text{mW/cm}^2$
On State Collector Current	$I_{C(ON)}$	1.0	5.0	---	mA	$V_{CE}=5\text{V}$ $I_F=20\text{mA}$

PACKAGE

LIGHT

深圳莱特光电股份有限公司

Light Electronics CO., LTD.

RoHS

TYPE NO. : _____

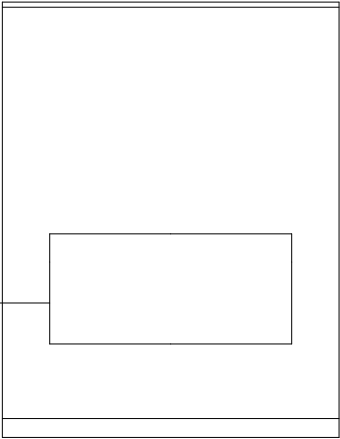
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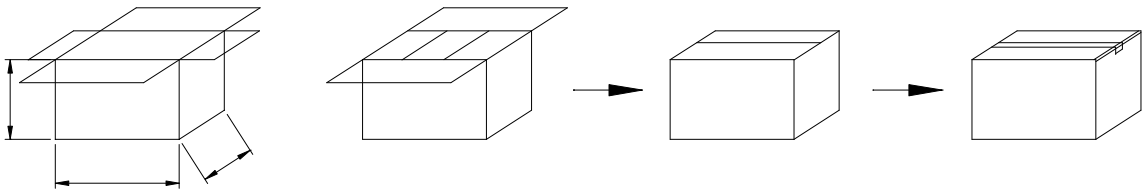
DATE CODE: _____

REMARKS: _____

LOT NO. :



Bag



Bag volume (pcs / Bag)	Outer Carton volume (Bag / Carton)
TBD	TBD