



安勤科技股份有限公司

APPROVAL SHEET

NO.APP-15-01999

QD4-015 Rev.B4

申請種類: 正式承認

料號	E1971120102R
品名	Membrane Keypad for IPM-1201 灰色 禎信 A1 ME1288ML 85*10mm

製造商	禎信
廠商型號	ME1288ML

Update 原因說明	
庫存說明	
其它	

安勤科技 測試報告

測試日期	2015-12-01 01:19:30		測試樣品數	3 PCS
測試項目	項目	測試條件		結果
	外觀	核對實物與圖面是否相符		Pass
	材質	依照承認書所標示之材質為檢驗標準		Pass
	電氣特性			
	機械強度			
	實裝動作	與料件組裝檢驗		Pass
	破壞實驗			
	顏色	依照照片或承認書所標示之顏色為檢驗標準		Pass
	尺寸	依照承認圖面所標示之尺寸為檢驗標準		Pass
	沾錫性			
	壽命實驗			
	安規			
	其它測試			
	使用儀器	游標卡尺		
備註				
測試結果	符合測試條件及規格			

安勒科技股份有限公司

正式承認

12/02/2015

資料中心

AVALUE TECHNOLOGY INC.



備註：

1. 申請人需先至GPM/管理/物料MCD設定/料號-審核狀態為通過，查詢此料已完成GREEN的承認，再辦理規格等承認。
2. 本單不能代替採購單及其它用途。
3. 如涉及專利及法律之問題, 應由送樣廠商負全責。
4. 以下內容所註記, 已經檢驗過並給予承認。
5. 申請承認需依料階符合「承認應備文件和檔案」

Workflow

Workflow Status	Action	Signoff User	Local Client Time	Signoff Comments
Initial (填表人)		ME2 Odelia Chen (陳麗淑)	2015-12-02 09:39:31	
Manager Review	Approved	ME2 Manager Daniel Lin (林秉智)	2015-12-02 09:41:50	
PDC & QC	Approved	PDC Jane Hsu (許筠蓁)	2015-12-02 09:51:37	
PDC & QC	Approved	QC Chunta Yeh (葉俊達)	2015-12-02 11:40:14	
PDC Head	Approved	PDC Mandy Huang (黃意婷)	2015-12-02 11:45:04	







Doc. Ref. No.	
Revision No.	Re.03
Date of Issue	2015.12.01

MEMBRANE SWITCH

Standard Specification

Customer : 安勤科技股份有限公司

Customer P/N. E1971120102R

JIT No. ME1288ML

Signature of Approval	
Date	

Approve	Verify	Prepare
Cash Chen	Cash Chen	BO-REN,LIN

Jensin International Technology Corp.

4F, No.110, Chiao Ho Rd., Chung Ho City, Taipei, Taiwan



安勤科技股份有限公司

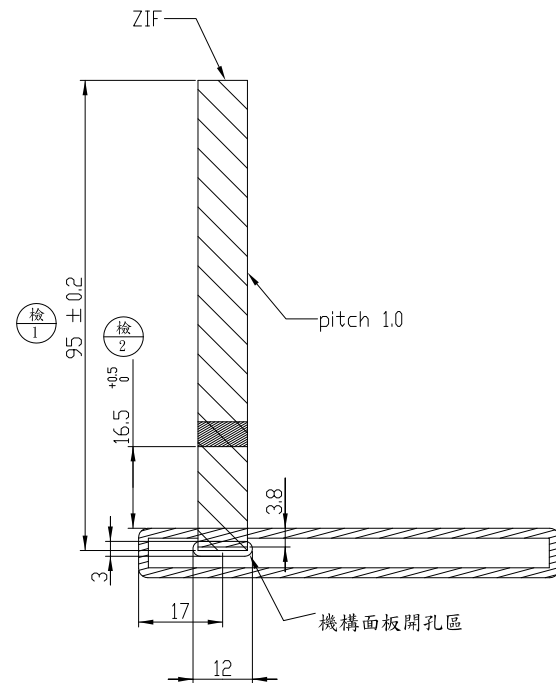
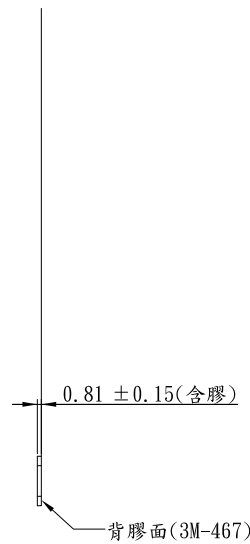
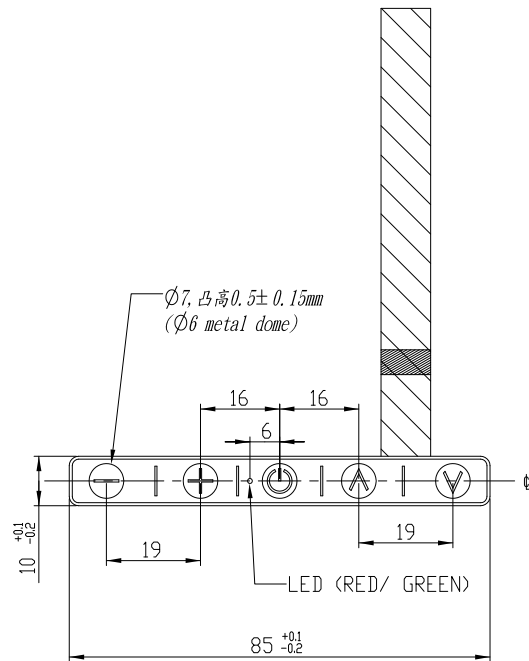
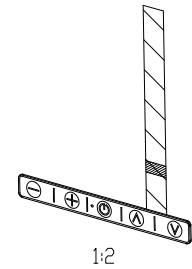
機構件承認書內容

項次	項目	內容
必備項目		
1	封面	依供應商樣品承認封面 (QD4-015) 執行。
2	供應商承認書內容	指本頁。
3	圖面	圖面內容： 1. 需簽署(核准)完整、標示完整(尺寸、公差、版本)。 2. 需註明顏色、色差值、材質、料厚、料號及材料所需之表面處理資訊。 3. 需標註重點尺寸。 4. 需說明注意事項或重點檢驗項目(變形量、髮絲方向、毛邊方向、防火等級)。 5. 註明表面處理之膜厚。 6. 註明可承受之扭拉力數值。
4	零件履歷表	零件版本歷史記錄。
5	機構量測報告	FAI(全尺寸量測)。
6	材質證明(含成分明細)	材質證明文件與物性表文件。
7	承認零件照片	照片不可模糊，多角度拍攝。
選用項目(請於下面方框中勾選)		
8	機構量測報告(沖壓模具品)	☐ Cpk。
9	UL 證明文件(塑件)	☐ UL 文件、防火等級。
10	衝擊實驗(Shock Test)報告	☐ Made by 3rd party。
11	包裝規範	☐ 紙箱規格、包裝形式、堆疊方式、堆疊高度。
12	落下實驗(Drop Test)報告	☐ Made by 3rd party。
13	包裝震動實驗	☐ 主要為測試運輸過程是否造成損傷，以箱或棧板為基礎單位。
		☐
		☐

估價圖面
樣品圖面
參考圖面
✓承認圖面
更新圖面

表面處理	電鍍	陽極	液烤漆	粉烤漆
膜厚(mm)	0.007≤	0.015≤	0.2≤	0.3≤

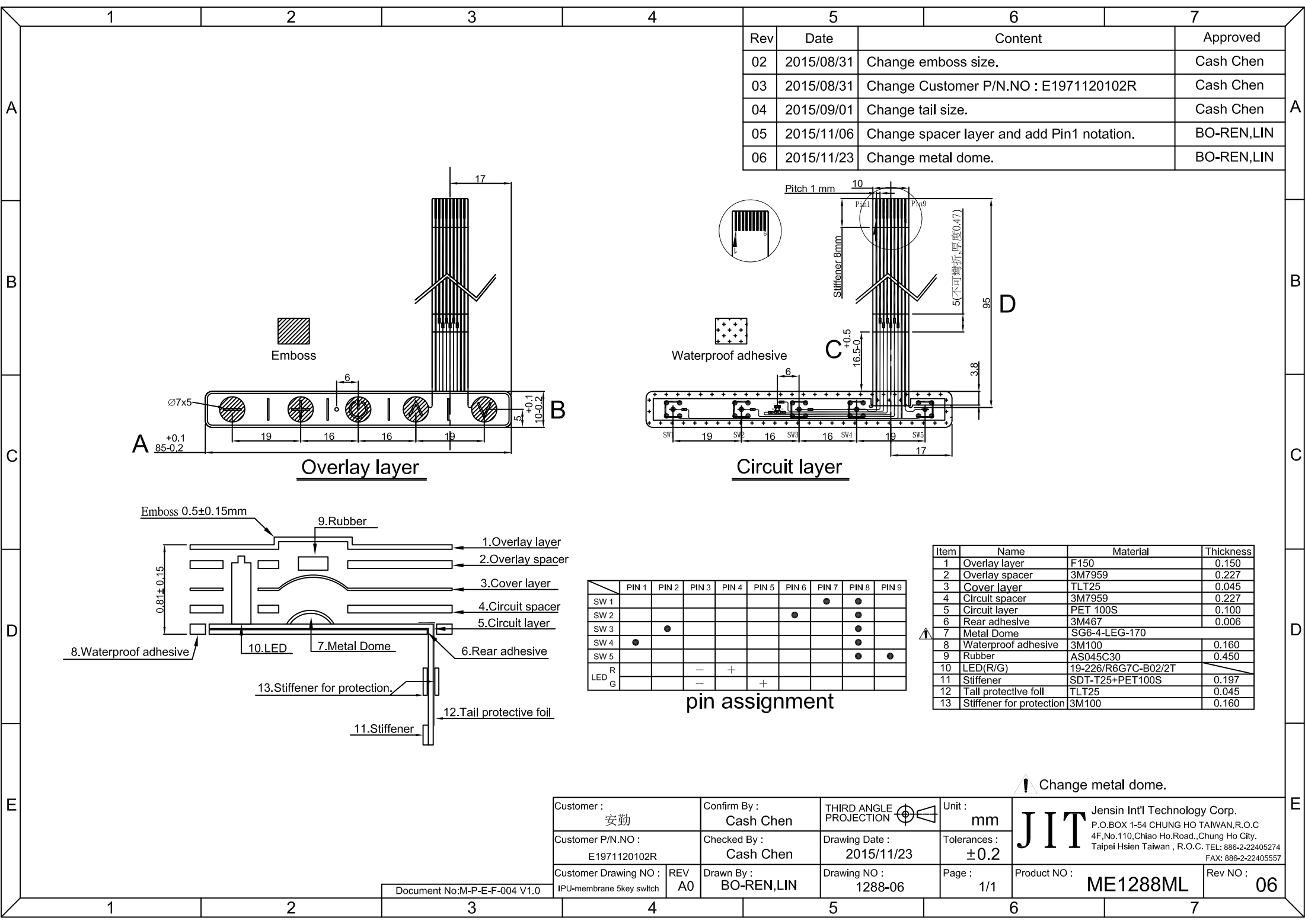
扭拉力	材質	鐵件	鋁件	塑膠件
扭力值(kgf/cm)		6	4	6
拉力值(kgf)		15	8	15



- Note:
1. Metal dome 荷重170g
 2. 表面需印刷(印刷圖面請參考AI檔)
 3. 複信料號:ME1288ML

Avalue	L	a	b
Vender	L	a	b
ΔE	≤1.5	-1	1

GENERAL TOL.	A	B	MATERIAL:		PART No.		E1971120102R		 安勤科技股份有限公司 Avalue Technology Inc.						
					TASK DWG No.										
	>0	±0.1	±0.1	SPEC:											
	>10	±0.1	±0.2	FINISH:		APPROVED	CHECKED	DESIGNED	DRAWN	NAME	IPM-MEMBRANE_SWITCH				
	>50	±0.15	±0.3	UNIT:MM			Daniel Lin	Mac Chen	Odelia Chen	Odelia Chen	MODEL No.	IPM-1201			
>200	±0.3	±0.5	SCALE:		1:1	2015/11/20	2015/11/20	2015/11/20	2015/11/20	REV.	A1	SHEET:	1/1	A3	
>500	±0.5	±0.8													
ANGEL TOL.:±0.5'															



5		6	7
Rev	Date	Content	Approved
02	2015/08/31	Change emboss size.	Cash Chen
03	2015/08/31	Change Customer P/N.NO : E1971120102R	Cash Chen
04	2015/09/01	Change tail size.	Cash Chen
05	2015/11/06	Change spacer layer and add Pin1 notation.	BO-REN,LIN
06	2015/11/23	Change metal dome.	BO-REN,LIN

	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
SW 1							●	●	
SW 2						●		●	
SW 3		●						●	
SW 4	●							●	
SW 5								●	●
LED R			-	+					
LED G			-		+				

Item	Name	Material	Thickness
1	Overlay layer	F150	0.150
2	Overlay spacer	3M7959	0.227
3	Cover layer	TLT25	0.045
4	Circuit spacer	3M7959	0.227
5	Circuit layer	PET 100S	0.100
6	Rear adhesive	3M467	0.006
7	Metal Dome	SG6-4-LEG-170	
8	Waterproof adhesive	3M100	0.160
9	Rubber	AS045C30	0.450
10	LED(R/G)	19-226/R6G7C-B02/2T	
11	Stiffener	SDT-T25+PET100S	0.197
12	Tail protective foil	TLT25	0.045
13	Stiffener for protection	3M100	0.160

Customer : 安勤

Customer P/N.NO : E1971120102R

Customer Drawing NO : IPU-membrane 5key switch

Confirm By : Cash Chen

Checked By : Cash Chen

Drawn By : BO-REN,LIN

THIRD ANGLE PROJECTION

Drawing Date : 2015/11/23

Drawing NO : 1288-06

Unit : mm

Tolerances : ±0.2

Page : 1/1

JIT

Jensin Int'l Technology Corp.
P.O.BOX 1-54 CHUNG HO TAIWAN,R.O.C
4F,No.110,Chiao Ho,Road.,Chung Ho City.
Taipei Hsien Taiwan , R.O.C. TEL: 886-2-22405274
FAX: 886-2-22405557

Product NO : ME1288ML

Rev NO : 06

Document No:M-P-E-F-004 V1.0

Change metal dome.

ME1288ML-01



PANTONE Cool Gray 11 C



PANTONE Cool Gray 6 C



WHITE





樣品出廠檢驗報告

Sample Inspection Report

No.

客戶名稱 Customer	安勤	客 戶 Customer p/n	E1971120102R	檢驗日期 Inspection Date	2015/11/12
訂單號碼 Order No	211500055	機種編號 JIT Part No	ME1288ML	數 量 Lot Quantity	3 PCS

1. 檢驗內容 Inspection Content

檢驗類別 Kind	檢驗項目 Item Check	全檢 100% Inspection	不良數 Defect	說 明 Description
電器檢驗 Electric Test	斷短路 Open Short	3	0	OK
	電阻值<100Ω Conduct Resistance	3	0	OK
尺 寸 Dimension	如附圖 As Picture	3	0	OK
外 觀 Appearance	印刷/顏色/整潔/變形 Printed/Color/Surface Tidy/ Deformation/	3	0	OK
包 裝 Packing	3pcs 1Pack	1	0	OK
其 它 Others				

2. 尺寸測量 Dimension Measure (Unit/mm)

Location	A	B	C	D	E	F	G	H	I	J	OK/NG
sample Standard tolerance	85	10	95	16.5							OK
	+0.1	+0.1	±0.2	+0.5							
	-0.2	-0.2		-0							
Value	84.83	9.86	94.92	16.95							

3. 電阻測量 Conduct Resistance Measure (Unit/Ω)-5PCS-Sample

Sample/location	Sw1	Sw2	Sw3	Sw4	Sw5	Sw6	Sw7	Sw8	Sw9	Sw10	OK/NG
Average Value	71	49	45	37	30						OK
Sample/location	Sw11	Sw12	Sw13	Sw14	Sw15	Sw16	Sw17	Sw18	Sw19	Sw20	OK/NG
Average Value											
Sample/location	Sw21	Sw22	Sw23	Sw24	Sw25	Sw26	Sw27	Sw28	Sw29	Sw30	OK/NG
Average Value											

4. 檢驗結果 Inspection Result

C=0 AQL ____0____ Acc / ____1____ Rej Defect ____0____ pcs						■ 合格 Accept	
Approved 核准		Review 審核		Inspector 檢驗者			



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TEL: +886 2 2248 3214 FAX: +886 2 2240 5557

Flexible Printed Circuit, Membrane Switch, Plastic Injection

Messrs. 安勤
Part No. E1971120102R
JIT
Type: ME1288ML

DATE: 2015/12/01

Ref. No. RD150005

Subject: Letter of RoHS Compliant

RoHS (Restriction of Hazardous Substances) Directive (2002/95/EC) defined by EU to lay a restrictions on the content of Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr+6) and Lead (Pb); Polybrominated Diphenyl Ether (PBDE), and Polybrominated Biphenyl (PBB) flame retardants in electrical / electronics products placed on the market in Europe effective July 1, 2006.

It considers a product to be RoHS compliant if the maximum concentration value by weight in homogeneous materials not exceeding 0.1% (1000 PPM) for lead, mercury, hexavalent chromium, PBB and PBDE, and 0.01% (100 PPM) for cadmium.

Materials required for manufacturing this specific product has been regarded as RoHS compliant based on supplier's SGS test report or declaration of conformity. JIT has been taking reasonable steps to collect SGS test report or declaration for all the materials, parts, and components he uses, and this information have been stored in technical file for further reference.

Check list of materials is listed below for reference.

Materials/ Parts/ Components	RoHS Compliant	Not RoHS Compliant/ Not Reviewed
Film Polyester	✓	
Film Polycarbonate	N/A	
Spacer Adhesive	✓	
Rear Adhesive	✓	
Inks	✓	
Metal Domes	✓	
LED	✓	
Protective Foil	✓	
Pin Contact	N/A	
Housing	N/A	
Stiffener	✓	
Rubber Pad	✓	

Remark: Description to be filled in right column when materials are not RoHS compliant or not reviewed.