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Please find attached the related material on Project

For your convenience, the below describes the related updates:

E158873-A6244-DescriptionUL
Figure-19-Total

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Times change, Trust Remains™

UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	DECODER MONITOR
Model:	SMT-2721D
Rating:	24 Vdc, 1.40 A or PoE (54 Vdc), 0.72 A
Applicant Name and Address:	HANWHA VISION CO LTD 6, PANGYO-RO 319BEON-GIL, BUNDANG-GU SEONGNAM-SI GYEONGGI-DO 13488 KOREA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Prepared By: SoHyun Lee / Project Handler Reviewed By: Sungil Kim / Reviewer

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

- i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
- ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
- iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

DECODER MONITOR has been designed for indoor use and wall/ceiling use with mount kits.

It is professional equipment and for use in locations where it is unlikely that children will be present. (including Remote control)

It is supplied from 24 Vdc or PoE (54 Vdc).

Model Differences

N/A

Test Item Particulars

Product group	end product
Classification of use by	Instructed person
Supply Connection	not mains connected: ES1
Supply tolerance	None
Supply connection – type	Not directly connected to the mains
Considered current rating of protective device	N/A
Equipment mobility	stationary wall/ceiling-mounted
Over voltage category (OVC)	OVC I
Class of equipment	Class III
Special installation location	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified Tma (°C)	40
IP protection class	IPX0
Power systems	not AC mains
Altitude during operation (m)	5000 m
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	6.5

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 40

- The product is intended for use on the following power systems : No direct connection
- Considered current rating of protective device as part of the building installation (A) : N/A
- Mains supply tolerance (%) or absolute mains supply : No direct connection
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2"

Additional Information

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- Tests were not considered necessary to determine compliance with Standard UL 62368-1, 3rd Ed, 2021-10-22 and CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 based upon previous evaluation under the IEC 62368-1: 2018 for the CB Scheme Test Certificate, Ref. Certi. DK-166219-UL (dated 2025-05-13) and Report Ref. No. C25IA006-M0A0 (dated 2025-05-13) were prepared by UL International Demko A/S, Borupvang 5A, DK-146175 Ballerup, Denmark.

- Maximum Normal Load: Full White Screen, Max. Brightness and Contrast, 1/8 Pmax for 2 ea * speaker, 3 ea * USB output load: 5 Vdc, 0.5 A each, Resolution 1 920 x 1 080.

Additional Standards

The product fulfills the requirements of: N/A

Markings and Instructions

Clause Title	Marking or Instruction Details
Equipment identification marking – Manufacturer identification	Listee's Company's name, Trade Name, Trademark or File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	Input Ratings (voltage, dc, current)
(Website) Manual - 1	This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from 24 Vdc, 1.40 A or PoE (54 Vdc), 0.72 A.
(Website) Manual - 2	The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3.bt shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.
Hard Copy	A. IMPORTANT or ATTENTION or similar wording. B. Please check 'Manuals' from our website, before connecting to the supply. C. Company website URL (https://www.~~) or QR code.
SCC requirement	If the signal words DANGER, WARNING, and CAUTION are included, a French manual is provided.

Special Instructions to UL Representative

N/A

BD1.0	TABLE: Production-Line Testing Requirements					
BD1.1	Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.					
Model	Component	Removable parts	Test probe location	Test V rms	Test V dc	Test Time, s
N/A	N/A	N/A	N/A	N/A	N/A	N/A
BD1.2	Earthing Continuity Test Exemptions – This test is not required for the following models:					
	All models					
BD1.3	Electric Strength Test Exemptions – This test is not required for the following models:					
	All models					
BD1.4	Electric Strength Test Component Exemptions – The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test.					
	All models					

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
-	-	-	-	-	-

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
Metal enclosure	Interchangeable	Interchangeable	Steel, Approximately 624.0 mm by 387.0 mm by 58.0 mm, Min. 1.0 mm thickness, See enclosure for dimension.	-	-	
LCD Panel	AUO Corporation	M270HVN2.0	27.0 inch LCD, LED backlight: 24 Vdc, 1.33 A max, LCD Logic: 5 Vdc, 1.46 A max, Resolution: 1 920 x 1 080	AZOT2	UL (E204356)	
Thermal pad	KOMOTECH CO LTD	KGP-1(a)	V-0, 150 deg. C, Min. 0.2 mm	QMFZ2	UL (E245303)	
Speaker	Interchangeable	Interchangeable	Two provided, 8 ohm, 1.67 W each	-	-	
Label	Interchangeable	Interchangeable	Suitable for use on each type of surface to which applied, rated for maximum surface temperature specified, or 40 deg. C if not specified.	PGDQ2 or PGJI2	UL	
LED driver board, See below	-	-	-	-	-	
Fuse (F1)	LITTELFUSE INC	451	125 Vdc, 4.0 A	JDYX2	UL (E10480)	
Fuse (F1) - Alternate	KOA CORP	CCF1N	60 Vdc, 4.0 A	JDYX2	UL (E171861)	
PWB	TAESUNG HITECH CO LTD	TS3 (GH515A(A10))	Min. V-0, 105 deg. C	ZPMV2	UL (E179708)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 105 deg. C	ZPMV2	UL	

Video decoder board, See below	-	-	-	-	-	
Fuse (F3)	LITTELFUSE INC	452/454 Series	125 V, 1.5 A	JDYX2	UL (E10480)	
Transformer (T3)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD	PDT25117SR	130 deg. C, See enclosure for information.	-	-	
Opto-coupler (LS2)	LITE-ON TECHNOLOGY CORP	LTV-816	Isolation Voltage: 5300 max. Operation Temperature: 110 deg. C	FPQU2	UL (E113898)	
Line filter (L1)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO.,LTD	PCM10021R	18 mH, 125 deg. C, See enclosure for information.	-	-	
USB Protection IC (U12)	DIODES INC	AP2182A	Rated 2.7-5.5 Vdc, Continuous current: 1.5 A, Protection current: 2.4 A	QVGS2	UL (E322375)	
Lithium Battery (CN1)	WUHAN LIXING (TORCH) POWER SOURCE CO LTD	CR2032	Lithium/manganese dioxide (Coin), Max Abnormal Charging Current: 10 mA, Max Abnormal Charging Voltage: 5.0 Vdc	BBCV2	UL (MH26236)	
Reverse Current Protection Circuit for Lithium Coin Battery (CN1)	Interchangeable	Interchangeable	Diode (D5, 80 V, 100 mA) and Resistor (R17, 1 kohm) in series.	-	-	
PWB	KI JOO INDUSTRIAL CO LTD	KJ4-V-0-2	Min. V-0, 130 deg. C	ZPMV2	UL (E111636)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 130 deg. C	ZPMV2	UL	

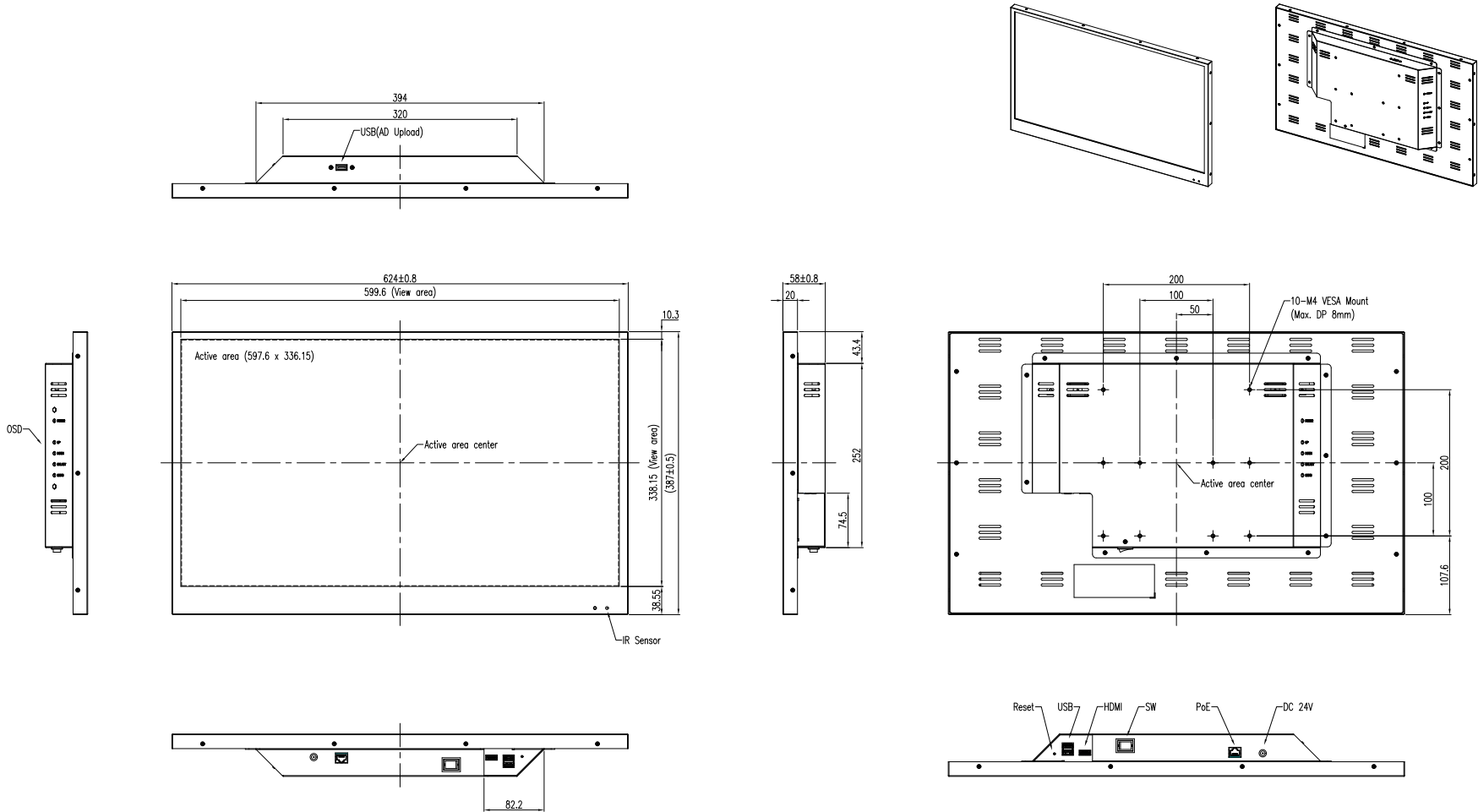
GT-PW110 board, See below	-	-	-	-	-	
PWB	HWAN DUCK ELECTRONICS CO LTD	2 (GT-PW110)	Min. V-0, 105 deg. C	ZPMV2	UL (E207811)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 105 deg. C	ZPMV2	UL	
TW-C7030BT board, See below	-	-	-	-	-	
Transformer (T1)	WEIHAI YILIAN ELECTRICS CO.,LTD	EFD-2020-500 (7030BT)	130 deg. C, See enclosure for information.	-	-	
Transformer (T1) - Alternate	GE & TECH	EFD-2020-500 (7030BT)	130 deg. C, See enclosure for information.	-	-	
Opto-coupler (PC1)	EVERLIGHT ELECTRONICS CO LTD	EL3H7	Isolation Voltage: 3 750. Max. Operation Temperature: 110 deg. C	FPQU2	UL (E214129)	
Opto-coupler (PC1) - Alternate	COSMO ELECTRONICS CORP	KPS2801	Isolation Voltage: 3 750. Max. Operation Temperature: 110 deg. C	FPQU2	UL (E169586)	
PWB	JAE IN CIRCUIT CO LTD	JID (TWC7030BT)	Min. V-0, 105 deg. C	ZPMV2	UL (E201289)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 105 deg. C	ZPMV2	UL	
AD board (GT814 R10), See below	-	-	-	-	-	
PWB	HWAN DUCK ELECTRONICS CO LTD	2 (GT814)	Min. V-0, 105 deg. C	ZPMV2	UL (E207811)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 105 deg. C	ZPMV2	UL	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	External view - 1
Photographs	03-02	External view - 2
Photographs	03-03	Internal view
Photographs	03-04	Power board view - 1
Photographs	03-05	Power board view - 2
Photographs	03-06	LED driver board view - 1
Photographs	03-07	LED driver board view - 2
Photographs	03-08	AD board view - 1
Photographs	03-09	AD board view - 2
Photographs	03-10	Video decoder board view - 1
Photographs	03-11	Video decoder board view - 2
Photographs	03-12	Output ports
Diagrams	04-01	Enclosure drawings
Manuals	06-01	Manuals
Miscellaneous	07-01	Label
Miscellaneous	07-02	Transformer (T1) Specification (WEIHAI YILIAN ELECTRICS CO.,LTD)
Miscellaneous	07-03	Transformer (T1) Specification (GE & TECH)
Miscellaneous	07-04	Transformer (T3) Specification
Miscellaneous	07-05	Linefilter (L1) Specification

The following Page(s) are related to Diagrams-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

MODEL	TLK-270	* Specifications and drawing are subject to change. * Do not block the vent hole. No additional cover on the vent hole should be used. It is recommended to have enough space for air circulation.	REV.	ECO No.	DESCRIPTION	DATE	APP'L
			0.92		PRODUCTION RELEASE	24.12.27	



TEMPORARY

NOTE

- STANDARD TOLERANCES : ±0.5
- NO SCRATCH, BURR & CRACK
- COLOR : ALL BLACK

NO.	DESCRIPTION	Q'TY	REMARK				
No.		1ea / 1set		Q'TY	1ea / 1set	SCALE	1 / 1
NAME	27" CLOSED FRAME			REVISION		PROJECTION	
MAT'L					Sample 0.92		
				APPROVED		TITLE	-
				CHECKED		BUYER	
				DRAWN	sang min choi	DATE	2024. 12. 27
						DWG.NO.	HANWHA VISION



The following Page(s) are related to Manuals-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

IMPORTANT SAFETY INSTRUCTIONS

- Read these operating instructions carefully before using the unit.
- Follow all the safety instructions listed below.
- Keep these operating instructions handy for future reference.
- 1) Read these instructions.
 - 2) Keep these instructions.
 - 3) Heed all warnings.
 - 4) Follow all instructions.
 - 5) Do not use this apparatus near water.
 - 6) Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth. (Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
 - 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
 - 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 - 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 - 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 - 11) Only use attachments/accessories specified by the manufacturer.
 - 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) This product is intended to be powered by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated as 24 VDC, 1.4 A or PoE (54 VDC), 0.72 A.
- 16) The wired LAN hub providing power over Ethernet (PoE) in accordance with IEEE 802.3.bt must be a UL Listed Device with its output evaluated as a Limited Power Source as defined in UL60950-1 or evaluated as PS2 as defined in UL62368-1.
- 17) DECODER MONITOR is professional equipment and for use in locations where it is unlikely that children will be present. (including Remote control)
- 18) Connect the USB Devices for Monitor F/W update.
This USB port only use for updating firmware, which cannot be used for other USB devices.

Standards Approvals



- Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- Do not ingest battery, Chemical Burn Hazard.
- This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part or the body, seek immediate medical attention.
- Prohibition of battery abuse
 - Do not install and use the wrong type of battery.
 - Do not leave the battery in a mechanically crush or cut it because it can explode.
 - Do not leave the battery in a high temperature environment.
 - Do not leave the battery in a low-pressure environment.

ATTENTION

- IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.
- Ne pas ingérer la pile, risque de brûlure chimique.
- Ce produit contient une pile de type bouton/pièce de monnaie. Si la pile de type bouton/pièce de monnaie est avalée, elle peut causer de graves brûlures internes en seulement 2 heures et peut entraîner la mort.
- Gardez les piles neuves et usagées hors de portée des enfants. Si le compartiment de la pile ne se ferme pas correctement, cessez d'utiliser le produit et gardez-le d'atteinte des enfants. Si vous suspectez que des piles ont été avalées ou insérées dans une partie du corps, consultez un médecin sans tarder.

overview

ABOUT USER MANUAL

This user manual provides information necessary to use the product, including a brief introduction, names of each part, functions, the connection method, and menu settings. Please read this manual carefully before using the product for proper use.

- This manual explains how to use the product based on the default values and the default screens.
- The information in this manual may vary, depending on the product's software update and our policies, and is subject to change without notice to the user.
- Please note that we are not responsible for damage caused by using non-standard products or any other besides those mentioned in the product specification manual.
- If you need to open the case and repair the inside, please contact the place of purchase and get professional help.

ABOUT TARGET READERS

This manual contains information for the user using the product.

ABOUT PRODUCT USAGE

Users of this product can perform the following operations:

- Real-time monitoring of the cameras registered to the product

Before using this product, please make sure that the product is the latest software version. You can visit Hanwha Vision's product homepage (<https://www.HanwhaVision.com>) to check and download the latest software version.

Warning

Battery

The rear cover should be removed only when the battery inside the product needs to be replaced. Use the same battery as the one used in the product because wrong battery replacement may result in a risk of explosion.

The specifications of the battery in use are as follows.

- Voltage: 3V
- Capacity: 210 mAh
- Continuous standard load: 0.4 mA
- Size: CR2032
- Usable temperature: -20°C - +60°C



- Do not place the battery under direct sunlight or near a heat source, such as a heater.
- The remote control battery is CR2025.

Operating temperature

The operating temperature of this product is from 0°C to 40°C. If left in an environment with a temperature below the range of operating temperature, the product may not operate. If this occurs, try using the product after storing it at room temperature.

About Security

The initial administrator ID is “admin,” and you need to set the password when logging in for the first time. Please change your password periodically every three months to safely protect personal information and to prevent damage through information theft. Please note that the user is responsible for their security and any other problems caused by mismanaging a password.

installation

Please take note of the followings before using this product.

- Do not use the product outdoor.
- Do not spill water or liquid in the connection part of the product.
- Do not impose the system to excessive shock or force.
- Do not pull out the power cord forcefully.
- Do not disassemble the product on your own.
- Do not exceed the rated input/output range.
- Use a certified power cord only.

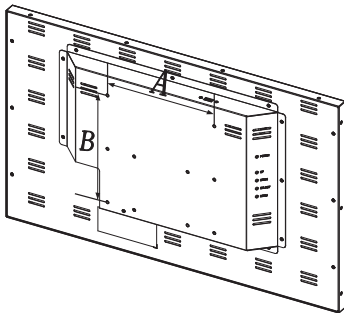
INSTALLING WALL MOUNT PARTS

Installing Wall Mount Kits

The wall mount kit (sold separately) allows you to hang the product on a wall.

For more information on wall mounting, refer to the owner's manual supplied with the wall mount parts. When installing the wall mount, seek the help of a technician.

Hanwha Vision is not responsible for any damage to the product or injury to the user or others caused by any accident due to a user's attempt to install the product.



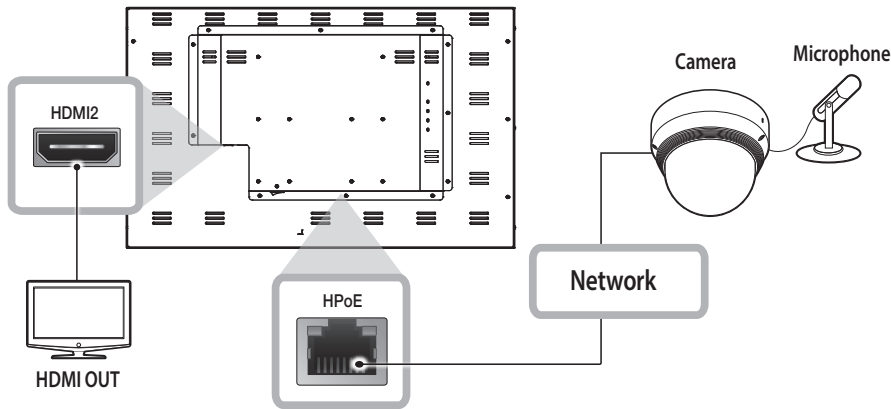
Wall Mount Kit Specifications (VESA)

- Install the wall mount kit on a solid wall perpendicular to the floor.
 - Please refer to the nearest store when installing on other materials.
 - Installing on an inclined wall may cause the product to fall, which can result in serious injury.
 - When using a VESA mount, select a product that can hold 4 times the weight of the monitor.
- When you purchase our wall mount kit, you will find a detailed installation guide and all parts required for assembly.
 - Do not use screws that are longer than the standard dimensions or that do not conform to the VESA standard screw specifications. Using screws that are too long may damage the inside of the product.
 - For wall mount parts that do not conform to the VESA standard screw specifications, the screw length may vary depending on the wall mount specifications.
 - Do not over-tighten the screws. The product may be damaged, or may fall, resulting in injury. Hanwha Vision is not responsible for any damage to the product or injury to the user or others caused by any accident due to a user's attempt to install the product.
 - Hanwha Vision is not responsible for damage to the product or injury to the user caused by using non-compliant or non-VESA wall mount parts, or by the customer not following the product installation instructions.
 - When hanging on a wall, two people should always lift the product.
 - The standard dimensions of the wall mount kit are shown in the table below. [Unit: mm]

VESA dimensions (A * B)	Standard screws	Quantity
200 X 200 200 X 100 100 X 100	M4/L8	4

- Do not install the wall mount kit with the product turned on. This may lead to injury due to electric shock.

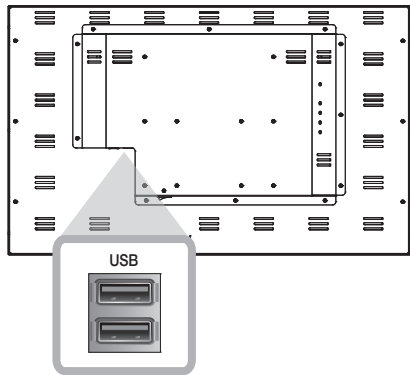
CONNECTING TO AN EXTERNAL DEVICE



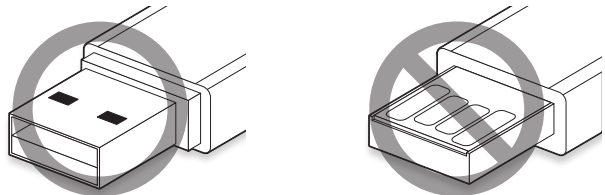
- Unrated or improper power source may cause damage to the system. Ensure that you use only the rated power source before connecting power to the system.

CONNECTING A USB DEVICE

1. A USB port is on the rear of the product.
2. You can connect a USB memory or mouse to the USB port.
3. The product supports a hot-plugging function that enables connecting/disconnecting USB devices while operating the system.



- Some USB devices may fail to function properly due to compatibility issues, please check the device before using it.
- If the USB memory is not detected, try formatting it on the "Setup > System > System management > Settings" menu.
- Only USB storage devices that comply with the standards (having a metal cover) are guaranteed for data transfer.
- In case the USB device's electric contacts have been worn out, data transfer between the devices may not properly function.





Decoder Monitor

MODEL : SMT-2721D

INPUT : DC24V $\approx$ 1.40A

PoE(54V $\approx$) 0.72A

M/C : SMT-2721D/KEX



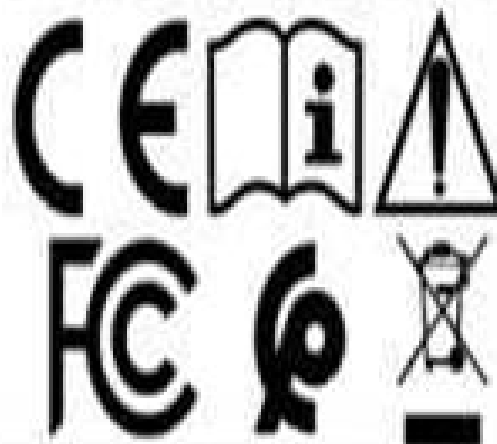
S/N: ZVOT71KWB000001K

MAC ADDRESS :

Factory ID : G

Made in Korea

Hanwha Vision Co., Ltd



WARNING : TO PREVENT FIRE OR SHOCK HAZARD
DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE
AVIS : RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR

The following Page(s) are related to Miscellaneous-02. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

CUSTOMER	
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SPECIFICATIONS

ITEM	SWITCHING TRANSFORMER
DISCRIPTION	EFD2020 H 6+6 SMD
CODE NO	
MODEL NO.	7030BT
DATE	2024.11.14

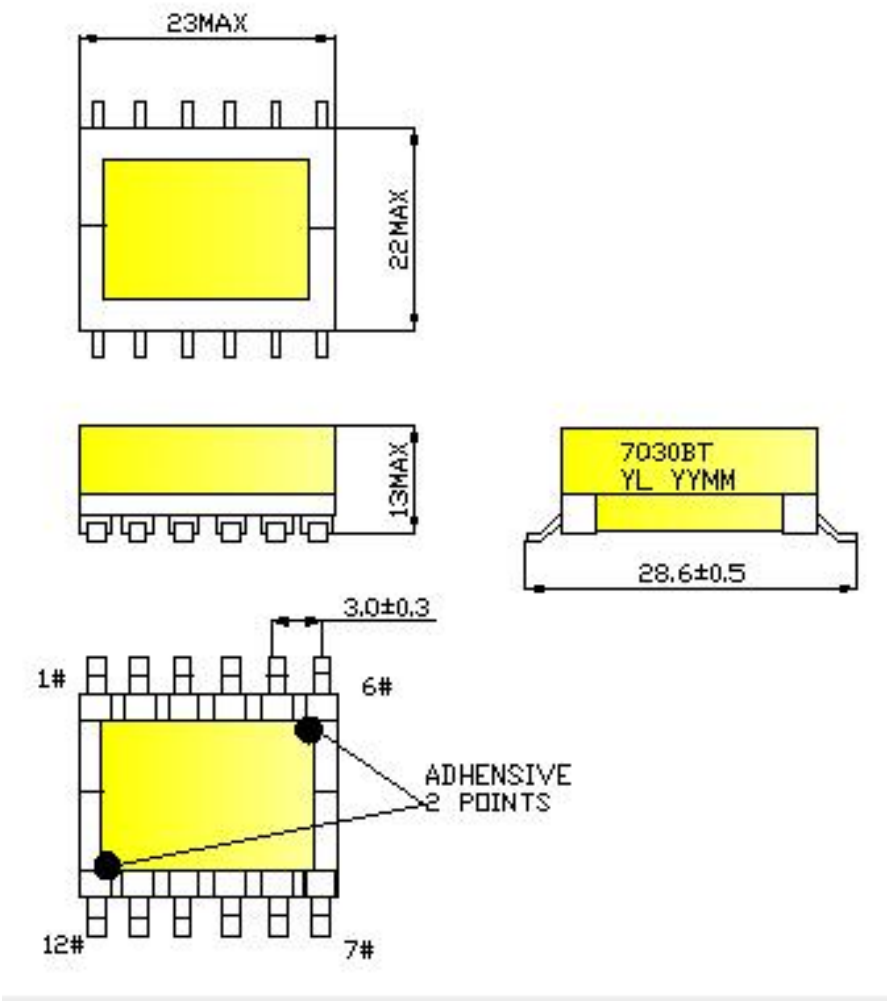
Approve by

WEIHAI YILIAN ELECTRICS CO.,LTD

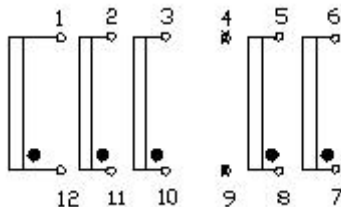
WEIHAI JINGJIJISHUKAIFAQU HUANSHANLUXI
DONGSHANKOUCUNBEI SHANDONG CHINA
TEL 13563133134

SPECIFICATIONS		SHEET NO.	2 OF 9
PART NAME	TRANSFORMER	MODEL NAME	
PART NO.	7030BT	TYPE	EFD2020 H 6+6 SMD

1、 DIMENSION (unit : mm)



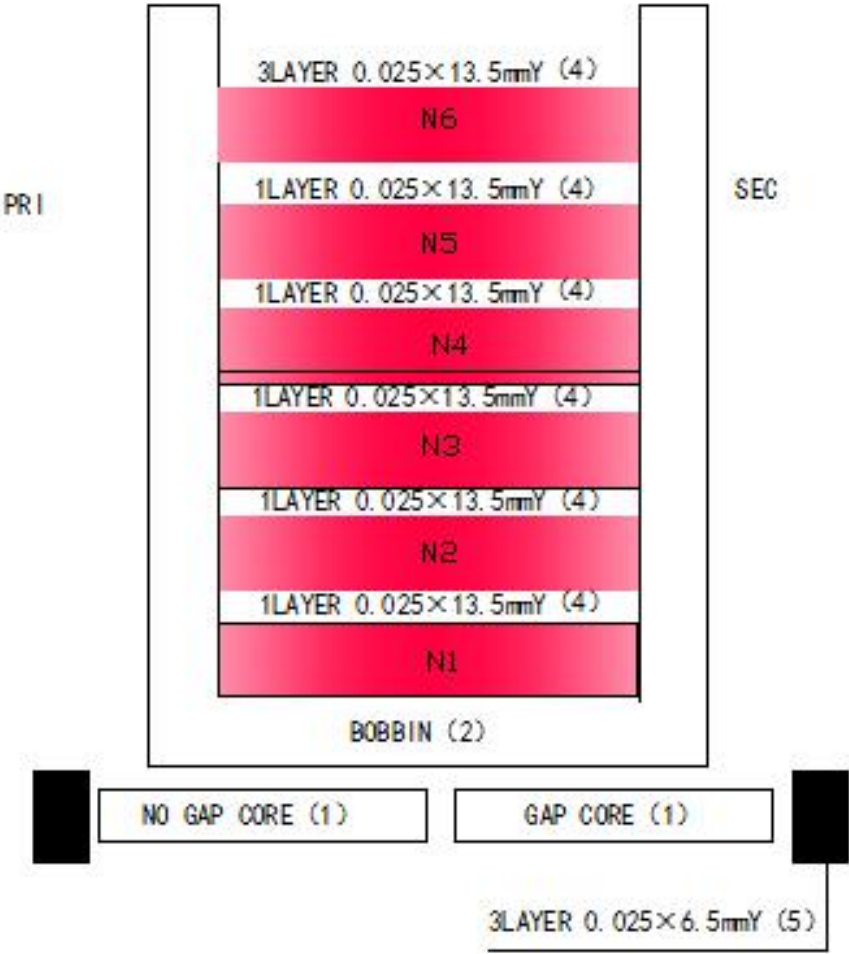
NO.	REVISION	DESIGN	CHECK	APPROVAL
		丁春敏	高秀菊	沙芳芳
		2024.11.14	2024.11.14	2024.11.14

SPECIFICATIONS				SHEET NO.		3 OF 9																																																																																																									
PART NAME		TRANSFORMER		MODEL NAME																																																																																																											
PART NO.		7030BT		TYPE		EFD2020 H 6+6 SMD																																																																																																									
2、PIN CONNECTION  “●” MARKS ARE START POINT 3、WINDING SPECIFICATION <table><tr><th rowspan="3"></th><th colspan="2">TERMNAL</th><th rowspan="3">WIRE</th><th rowspan="3">TURNS</th><th rowspan="3">WINDING METHOD</th><th colspan="2">INSULATION</th><th colspan="2">BARRIER TAPE</th></tr><tr><th rowspan="2">S</th><th rowspan="2">F</th><th rowspan="2">T/W</th><th rowspan="2">T/S</th><th>PRI</th><th>SEC</th></tr><tr><th>mm</th><th>`mm</th></tr><tr><td>N1</td><td>7</td><td>6</td><td>UEW0.26Φ×2</td><td>20</td><td>SOLENOID</td><td>0.025T*13.5 mm(Y)</td><td>1</td><td></td><td></td></tr><tr><td rowspan="3">N2</td><td>12</td><td>1</td><td>UEW 0.32Φ×2</td><td>5</td><td rowspan="3">BIFILAR SOLENOID</td><td rowspan="3">0.025T*13.5 mm(Y)</td><td rowspan="3">1</td><td rowspan="3"></td><td rowspan="3"></td></tr><tr><td>11</td><td>2</td><td>UEW 0.32Φ×2</td><td>5</td></tr><tr><td>10</td><td>3</td><td>UEW 0.32Φ×2</td><td>5</td></tr><tr><td>N3</td><td>7</td><td>6</td><td>UEW0.26Φ×2</td><td>20</td><td>SOLENOID</td><td>0.025T*13.5 mm(Y)</td><td>1</td><td></td><td></td></tr><tr><td rowspan="3">N4</td><td>12</td><td>1</td><td>UEW 0.32Φ×2</td><td>5</td><td rowspan="3">BIFILAR SOLENOID</td><td rowspan="3">0.025T*13.5 mm(Y)</td><td rowspan="3">1</td><td rowspan="3"></td><td rowspan="3"></td></tr><tr><td>11</td><td>2</td><td>UEW 0.32Φ×2</td><td>5</td></tr><tr><td>10</td><td>3</td><td>UEW 0.32Φ×2</td><td>5</td></tr><tr><td>N5</td><td>7</td><td>6</td><td>UEW0.26Φ×2</td><td>20</td><td>SOLENOID</td><td>0.025T*13.5 mm(Y)</td><td>1</td><td></td><td></td></tr><tr><td>N6</td><td>8</td><td>5</td><td>UEW0.15Φ×1</td><td>5</td><td>SPACE</td><td>0.025T*13.5 mm(Y)</td><td>3</td><td></td><td></td></tr><tr><td colspan="6">CORE FIXING TAPE</td><td>0.025t*6.5mm(Y)</td><td>3</td><td></td><td></td></tr></table>									TERMNAL		WIRE	TURNS	WINDING METHOD	INSULATION		BARRIER TAPE		S	F	T/W	T/S	PRI	SEC	mm	`mm	N1	7	6	UEW0.26Φ×2	20	SOLENOID	0.025T*13.5 mm(Y)	1			N2	12	1	UEW 0.32Φ×2	5	BIFILAR SOLENOID	0.025T*13.5 mm(Y)	1			11	2	UEW 0.32Φ×2	5	10	3	UEW 0.32Φ×2	5	N3	7	6	UEW0.26Φ×2	20	SOLENOID	0.025T*13.5 mm(Y)	1			N4	12	1	UEW 0.32Φ×2	5	BIFILAR SOLENOID	0.025T*13.5 mm(Y)	1			11	2	UEW 0.32Φ×2	5	10	3	UEW 0.32Φ×2	5	N5	7	6	UEW0.26Φ×2	20	SOLENOID	0.025T*13.5 mm(Y)	1			N6	8	5	UEW0.15Φ×1	5	SPACE	0.025T*13.5 mm(Y)	3			CORE FIXING TAPE						0.025t*6.5mm(Y)	3		
	TERMNAL		WIRE	TURNS	WINDING METHOD	INSULATION			BARRIER TAPE																																																																																																						
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NO.		REVISION			DESIGN	CHECK	APPROVAL																																																																																																								
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					2017.04.05	2017.04.05	2017.04.05																																																																																																								

[illegible]

SPECIFICATIONS		SHEET NO.	5 OF 9
PART NAME	TRANSFORMER	MODEL NAME	
PART NO.	7030BT	TYPE	EFD2020 H 6+6 SMD

5 、 INTERNAL CONSTRUCTION



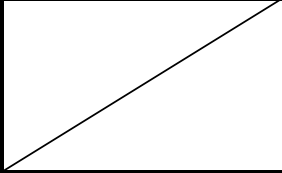
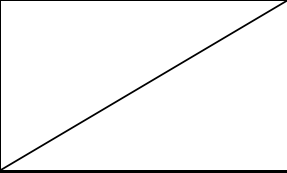
NO.	REVISION	DESIGN	CHECK	APPROVAL
		丁春敏	高秀菊	沙芳芳
		2024.11.14	2024.11.14	2024.11.14

SPECIFICATIONS		SHEET NO.	6 OF 9		
PART NAME	TRANSFORMER		MODEL NAME		
PART NO.	7030BT		TYPE	EFD2020 H 6+6 SMD	
6、LIST OF MATERIALS					
NO	COMPONENT	MATERIALS	MANUFACTURES	UL FILE NO	
1	CORE	EFD2020 PC40	SHANGHAI JISHUN ELECTRONICS CO.,LTD		
		EFD2020 PC40	SUZHOU GUANDA ELECTRONICS CO.,LTD		
		EFD2020 PC40	ZAOZHUANG XIANGSHENG ELECTRONICS CO.,LTD		
2	BOBBIN	PHENOLIC (94V-0), EFD2020,12PIN(6+6)	CHANG CHUN PLASTICS CO.,LTD	E59481	
3	WIRE	POLYURETHANE UEW Φ0.26 UEW Φ0.32 UEW Φ0.15	JIANGSU DATONG QINGJIANG M&E CO.,LTD	E237377	
4	INSULATION TAPE	POLYESTER TAPE 0.025*13.5Y	GUANGDONG KANGLI NEW ENERGY MATERIAL TECHNOLOGY CO.,LTD	E511186	
5	CORE FIXXING TAPE	POLYESTER TAPE 0.025*6.5Y			
6	ADHENSIVE	E-500	SUZHOU EATTO ELECTRONICS MATERIALS CO., KTD.		
7	SOLDER	Sn 99.3% BAR	TIANJIN SONGBEN ENVIRONMENTAL PROTECTION CO., LTD		
8	FLUX	Pb FREE			
9	MARKING	INK	WUHAN WIDODA CO., LTD.		
NO.	REVISION		DESIGN	CHECK	APPROVAL
			丁春敏	高秀菊	沙芳芳
			2024.11.14	2024.11.14	2024.11.14

The following Page(s) are related to Miscellaneous-03. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

SPECIFICATIONS

DESCRIPTION	S/W TRANS
SPECIFICATION	
MAKER SPECIFICATION	EFD-2020,SMD
CODE NO.	EFD2020-500
MODEL NO.	
SPECIAL ARTICLES	

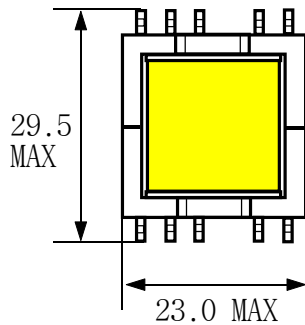
DESIGN	CHECK	APPROVAL
		
		2022.07.18.
A TERM OF VALIDITY	YEAR	

REQUEST CUSTOMER	GE & TECH	Mobile : 010-3398-9132 E-mail : whitecolor01@ naver.com
ADDRESS	#201,57 Maeyeoul-ro 40beongil,Yeongtong-gu, Suwon-city,Gyeonggi-do,Korea	

CUSTOMER :

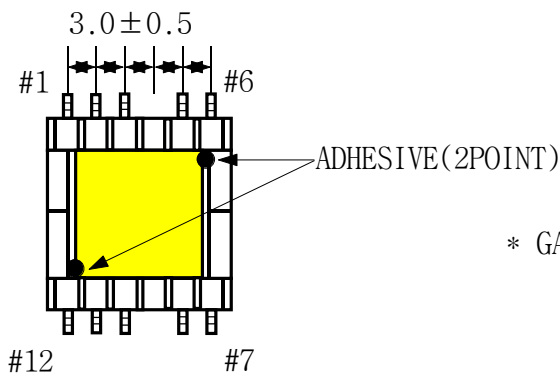
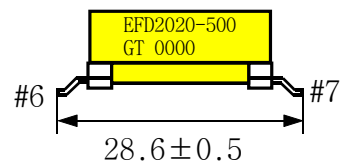
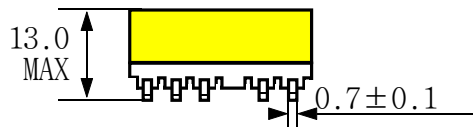
SPECIFICATIONS		SHEET NO.	OF
		DATE	2022. 7. 18.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	EFD2020-500	TYPE NO	EFD-2020, SMD

1. APPEARANCE & DIMENSIONS (UNIT:mm)



* MARKING (BLACK) *

EFD2020-500 ← PART NO
 GT 0000
 ↑ ↑ ↑
 제조주차
 제조년
 제조MAKER



* GAP : CENTER AIR GAP



GE & TECH

OFFICE
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 Gyeonggi-do,Korea
 Mobile : 010-3398-9132
 E-mail : whitecolor01@naver.com

APPROVAL	CHECK	DESIGN
FILE NO.		

CUSTOMER :

SPECIFICATIONS

SHEET NO.

OF

DATE

2022. 7. 18.

PART NAME

S/W TRANS

MODEL NAME

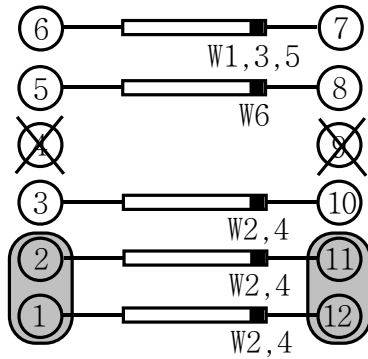
PART NO.

EFD2020-500

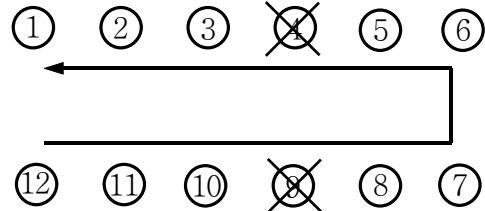
TYPE NO

EFD-2020, SMD

2. SCHEMATIC DIAGRAM



: PCB PATTERN SHORT



WINDING

#7~#12 VIEW

C.C.W

BOBBIN INSERT

#1~#6 SIDE

REMOVE PIN

#3,9

N.C PIN

-

PET TAPE

-

3. WINDING SPECIFICATION

WINDING ORDER	SYMBOL	TERMINAL NO.	WIRE	TURNS	WINDING METHOD	REMARKS
W1		7S - 6F	2UEW 0.26 ϕ X2	20t	SOLENOID WINDING	
W2		12S - 1F	2UEW 0.32 ϕ x2	5t	BIFILAR SOLENOID WINDING	
		11S - 2F	2UEW 0.32 ϕ x2	5t		
		10S - 3F	2UEW 0.32 ϕ x2	5t		
W3		7S - 6F	2UEW 0.26 ϕ X2	20t	SOLENOID WINDING	
W4		12S - 1F	2UEW 0.32 ϕ x2	5t	BIFILAR SOLENOID WINDING	
		11S - 2F	2UEW 0.32 ϕ x2	5t		
		10S - 3F	2UEW 0.32 ϕ x2	5t		
W5		7S - 6F	2UEW 0.26 ϕ X2	20t	SOLENOID WINDING	
W6		8S - 5F	2UEW 0.15 ϕ	5t	SPACE WINDING	



GE & TECH

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 Gyeonggi-do, Korea
 Mobile : 010-3398-9132
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DESIGN

CHECK

APPROVAL

FILE NO.

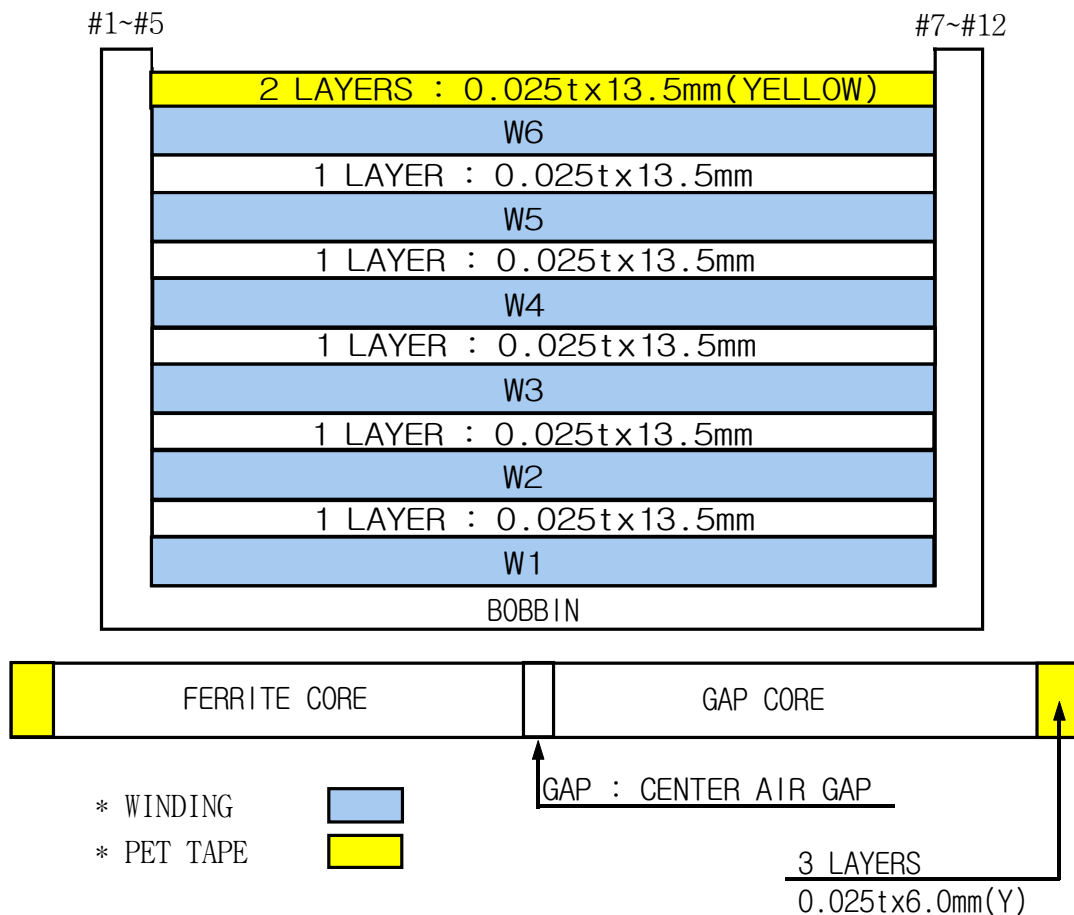
CUSTOMER :

SPECIFICATIONS		SHEET NO.	OF
		DATE	2022. 7. 18.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	EFD2020-500	TYPE NO	EFD-2020, SMD

4. INSULATION

NO	COIL	MATERIALS	LAYERS	THICKNESS (mm) x WIDTH (mm)
1	W1 TO W2	PET FILM INSULATING TAPE	1t	0.025t x 13.5mm
2	W2 TO W3	PET FILM INSULATING TAPE	1t	0.025t x 13.5mm
3	W3 TO W4	PET FILM INSULATING TAPE	1t	0.025t x 13.5mm
4	W4 TO W5	PET FILM INSULATING TAPE	1t	0.025t x 13.5mm
5	W5 TO W6	PET FILM INSULATING TAPE	1t	0.025t x 13.5mm
6	W6 TO CORE	PET FILM INSULATING TAPE	2t	0.025t x 13.5mm(Y)
7	CORE FIXING	PET FILM INSULATING TAPE	3t	0.025t x 6.0mm(Y)

5. INTERNAL CONSTRUCTION



GE & TECH

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Gyeonggi-do, Korea
Mobile : 010-3398-9132
E-mail : whitecolor01@naver.com

DESIGN	CHECK	APPROVAL
FILE NO.		

CUSTOMER :

SPECIFICATIONS		SHEET NO.	OF
		DATE	2022. 7. 18.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	EFD2020-500	TYPE NO	EFD-2020, SMD

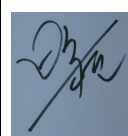
6.ELECTRICAL CHARACTERISTIC

NO	CLOSURE	TERMINAL	ELECTRICAL CHARACTERISTICS	TOLERANCE	CONDITION
1	INDUCTANCE	7 - 6	50.0 uH	±10%	LCR-METER at 100KHz, 1Vrms
2	DC RESISTANCE	7 - 6	0.055 Ω	MAX.	OHM METER
3	LAYER SHORT	AC 1.4KV, 60Hz.			
4	INSULATION RESISTANCE	DC 500V, 100M OHM MIN. (COIL TO COIL, ANY COIL TO CORE)			
5	WITHSTAND VOLTAGE	AC 1.5KV, 1 MINUTE. (P COIL TO S COIL) AC 1.5KV, 1 MINUTE. (ANY COIL TO CORE)			



GE & TECH

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Mobile : 010-3398-9132
E-mail : whitecolor01@naver.com

DESIGN	CHECK	APPROVAL
		
FILE NO.		

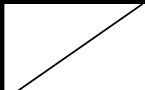
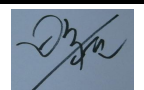
MATERIALS LIST

SHEET NO : OF

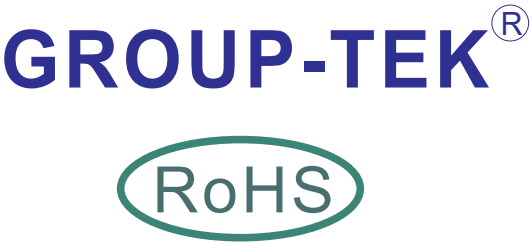
PART NAME : S/W TRANS
 PART NO : EFD2020-500
 TYPE NO : EFD-2020
 MODEL NO. :

DATE : 2022. 7. 18.

NO	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF MATERIAL	UL No.	Grade/ Class	Operating temp
1	CORE	EFD-2020 PL-7	SAM WHA ELECTRONICS CO.,LTD.		N/A	N/A
		EFD-2020 PC40	SHANGHAI JISHUN ELECTRONICS CO.,LTD.		N/A	N/A
		EFD-2020 HT-P4	HENGTAI ELECTRONICS CO.,LTD.		N/A	N/A
		EFD-2020 TD4	ZHEJIANG TONGDA MACANETIC PRODUCTS CO.,LTD		N/A	N/A
		EFD-2020 ZP44 or eqv.	ZHONGLI ELECTRONICS CO.,LTD. or eqv.		N/A	N/A
2	BOBBIN	PHENOLIC (PF 2736(a)(b))	HEXION GMH	E61040	B	130℃
		PHENOLIC (T375HF)	CHANG CHUN PLASTICS CO.,LTD.	E59481		
3	WIRE	POLYURETHANE 2UEW 0.15 ø 2UEW 0.26 ø 2UEW 0.32 ø	JIANGSU DARTONG M&E CO.,LTD	E237377	B	130℃
			JINYANG ENAMELLED ROUND WINDING WIRES CO., LTD	E488662	F	155℃
			CNI ELECTRONICS CO.,LTD or eqv	E210918	B	130℃
4	INSULATION TAPE	PET FILM TAPE 0.025t x 13.5mm	DUCK SUNG HITECH CO.,LTD.(DTS-204&) JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD (CT-280B)	E105147 E165111	B	130℃
5	CORE FIXING TAPE	PET FILM TAPE 0.025t x 6.0mm	GUANGDONG KANGLI NEW ENERGY MATERLALS TECHNOLOGY CO.,LTD(KL-168) or eqv.	E511186		
6	ADHESIVE RESIN	H907Z	QINGDAO THREE-DIMENSIONAL POLYMERS TRADE CO.,LTD		N/A	N/A
		3300ZH SK-015B or eqv.	SUZHOU EATTO ELECTRONICS MATERIALS CO.,LTD. SE GYE CHEMICAL CO., or eqv.			
7	SOLDER	BAR	DAEKIL METAL CO.,LTD. TIANJIN SONGBEN ENVIRONMENTAL SCIENCE&TECH CO.,LTD. or eqv.		N/A	N/A
8	INK	BLACK	FUJIAN TAI NEW SPRING TECHNOLOGY CO.,LTD SHANGHAI LEADJET INKJET PRINTER TECHNIGUE CO.,LTD. or eqv.		N/A	N/A

DESIGNED BY	CHECKED BY	APPROVED BY
		

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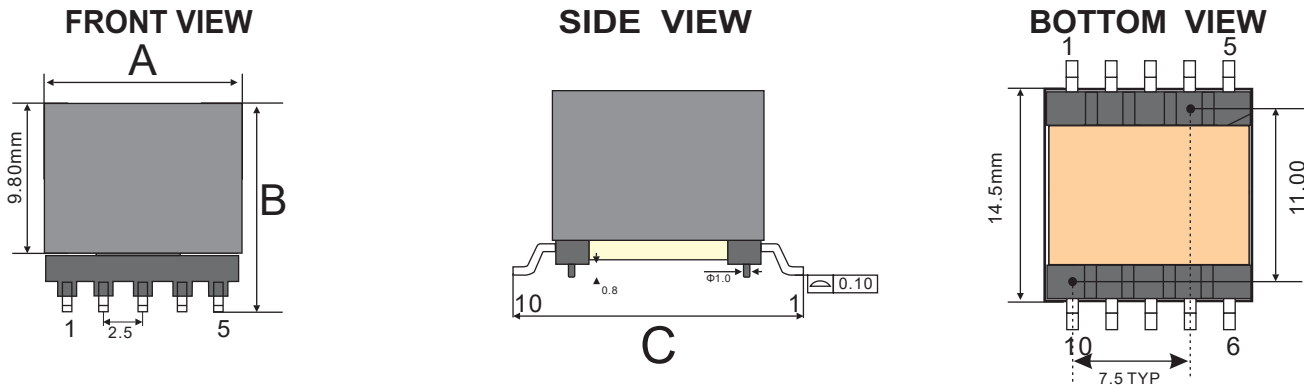
承认书

SPECIFICATION FOR APPROVAL

CUSTOMER	
MODEL NO.	
PART NAME	POWER TRANSFORMER
PART TYPE	PDT25117SR
REV	X3
SIGNATURE	制图: 施壘某 2019-11-20 Lei Wan 审核: 施壘某 2019-11-20 GX Song 批准: 施壘某 2019-11-20 Jiang Wang
CUSTOMER APPROVAL	廠志恆: SIGNET 嘯ò: SIGNATURE

拐 提 攪 施 壘 某 棐 槐 壘 毒 泐 涓 滌 潑
SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD
地 址： 深圳市宝安区石岩街道应人石工业区伟泰路 1 栋（P. C: 518108）
ADD: No.1 Block, WeiTai Rd. Ying Ren Shi Industry Park, Shi Yan Sub-District, Bao'An ShenZhen,
TEL: +86-755-29810619 29810976 FAX: +86-755-29810159
Http://www.group-tek.com E-mail:sale1@group-tek.com

2. Mechanical Dimensions:



Note:

1. Wrap 2Ts of 7mm tape around the finished part.
2. Place the epoxy to fixed the core.
3. Wrap the copper shield for the finished part, then wrap 2T tape.

Unit: mm

A MAX	B MAX	C MAX
15.0	14.0	17.8

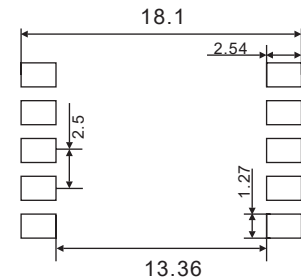
Laser Marking information

PDT25117SR
GROUP-TEK

● YYWW



Suggested PCB Paad Layout

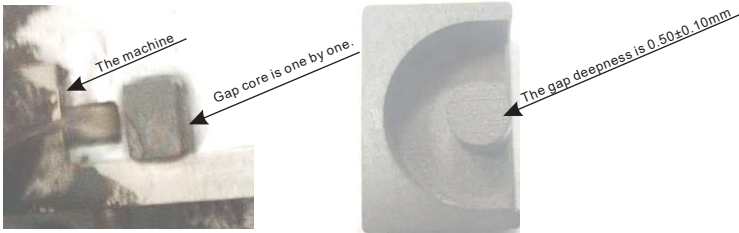


3. Electrical Characteristics :

Specifications: at 25 degree C. Operating Temperature -40 to +105°C

NO.	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	(3-2) @100KHz, 1.0V	77.0uH ±15%.
2	Inductance	(4-5) @100KHz, 1.0V	23.0uH ±20%.
3	Inductance	(8,9-6,7) @100KHz, 1.0V	31uH ±20%.
4	Leakage Inductance	(3-2) @100KHz, 1.0V with shorted other pins.	3.0uH Max.
5	DCR	(3-2) @ 25°C	0.20Ω Max.
6		(4-5) @ 25°C	0.15Ω Max..
7		(8,9-6,7) @ 25°C	0.15Ω Max.
8	HI-POT	PRI TO SEC	1200Vac 5mA 3Sec.
9	TURN RATIO	(3-2):(8,9-6,7)	1:0.64±2%.
10	TURN RATIO	(3-2):(4-5)	1:0.55±2%.

4.Overhauling List.

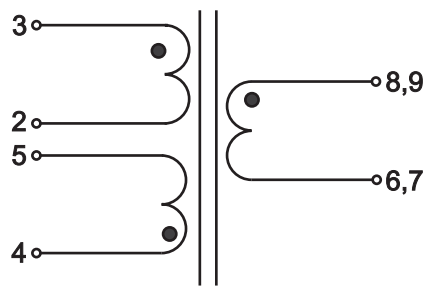
NO.	ITEM	SPECIFICATION
1	Tape turns	2T
2	Margin tape thickness	0.10mm
3	Winding turns	N1:22T N2:14T N3:12T N4:0.9T
4	Shield copper .	0.025mm*7mm
5	Pins order/Pin connection .	1T
6	Marking Information	PDT25117SR GROUP-TEK ● DATE CODE
7	Gap the center leg	
8	Solder Temperature	

4.Winding Information:

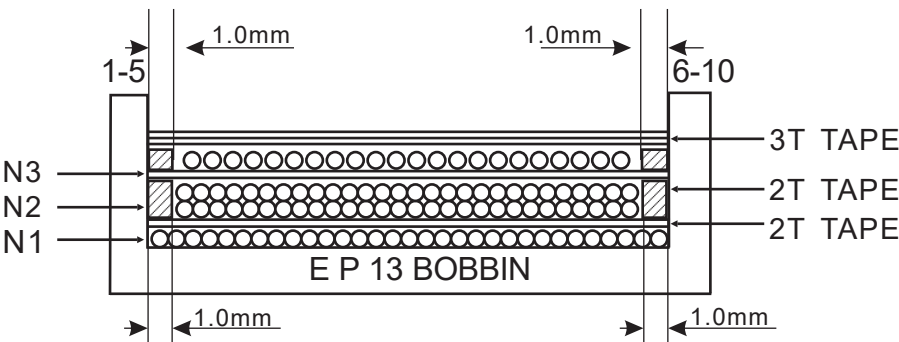
WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
1	3--2	0.30mm 2UEW	22	2T w8.0mm	N/A	N/A	1.
2	8,9--6,7	2*0.30mm 2UEW	14	2T w8.0mm	2T W=1.0mm	N/A	1.
3	4--5	0.30mm 2UEW	12	3T w8.0mm	1T W=1.0mm	N/A	1.

NOTE :
1.Place the bobbin pin 1 left side of operator.

5.Schematic:



6.Winding detail:



7.Material List:

NO.	ITEM.	MATERIALS	SUPPLIERS/MANUFACTURERS	UL FILE NO.
1	BOBBIN	PF2A5-151J(b)	Changshu South EastPlastics Co.,Ltd	E136137
2	CORE	E P13 PG242A	Advance Electronics Products Co.,Ltd	N/A
3	WIRE	POLYURETHANE ENAMELED TYPE NO.: 2UEW ϕ 0.30 THERMAL RATING:180°C	Shing Shun Magnet wire(HuiZhou) Co.,Ltd	E255839
4	TAPE	ADHESIVE POLYESTER TAPE TYPE NO.:CT*(c)(g) THERMAL RATING:130°C yellow tape : for inner coils	JingJiang yahua pressure sensitive glue Co.,Ltd	E165111
5	SOLDER	SN/CU: 99.3/0.7	Gao Xin stannum industry Co., Ltd	N/A
6	EPOXY	H-1026	Dongguan city Eatto electronics material Co.,Ltd	N/A
7	CASE	PF2A5-151J(b)	Changshu South EastPlastics Co.,Ltd	E136137

8.PACKING INFORMATION:

DESCRIPTION	QTY
PIECES PER REEL	150
PIECES PER POCKET	1
PIECES PER BOX	450
REEL PER BOX	3
GROSS WEIGHT PER BOX(KG)	TBD
NET WEIGHT PER BOX(KG)	TBD

The following Page(s) are related to Miscellaneous-05. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

GROUP-TEK®



承认书

SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER	
客户料号 MODEL NO.	EP07-001193A
产品名称 PART NAME	COMMON MODE CHOKE
产品型号 PART TYPE	PCM10021R
版本 REV	X1
签名 SIGNATURE	制图: 审核: 批准:
客户承认 CUSTOMER APPROVAL	承认印: SIGNET 签名: SIGNATURE

深圳市联泰兴电子科技有限公司

SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD

地址: 深圳市宝安区石岩街道应人石工业区伟泰路 1 栋 (P. C: 518108)

ADD: No.1 Block, WeiTai Rd. Ying Ren Shi Industry Park, Shi Yan Sub-District, Bao'An ShenZhen,

TEL: +86-755-29810619

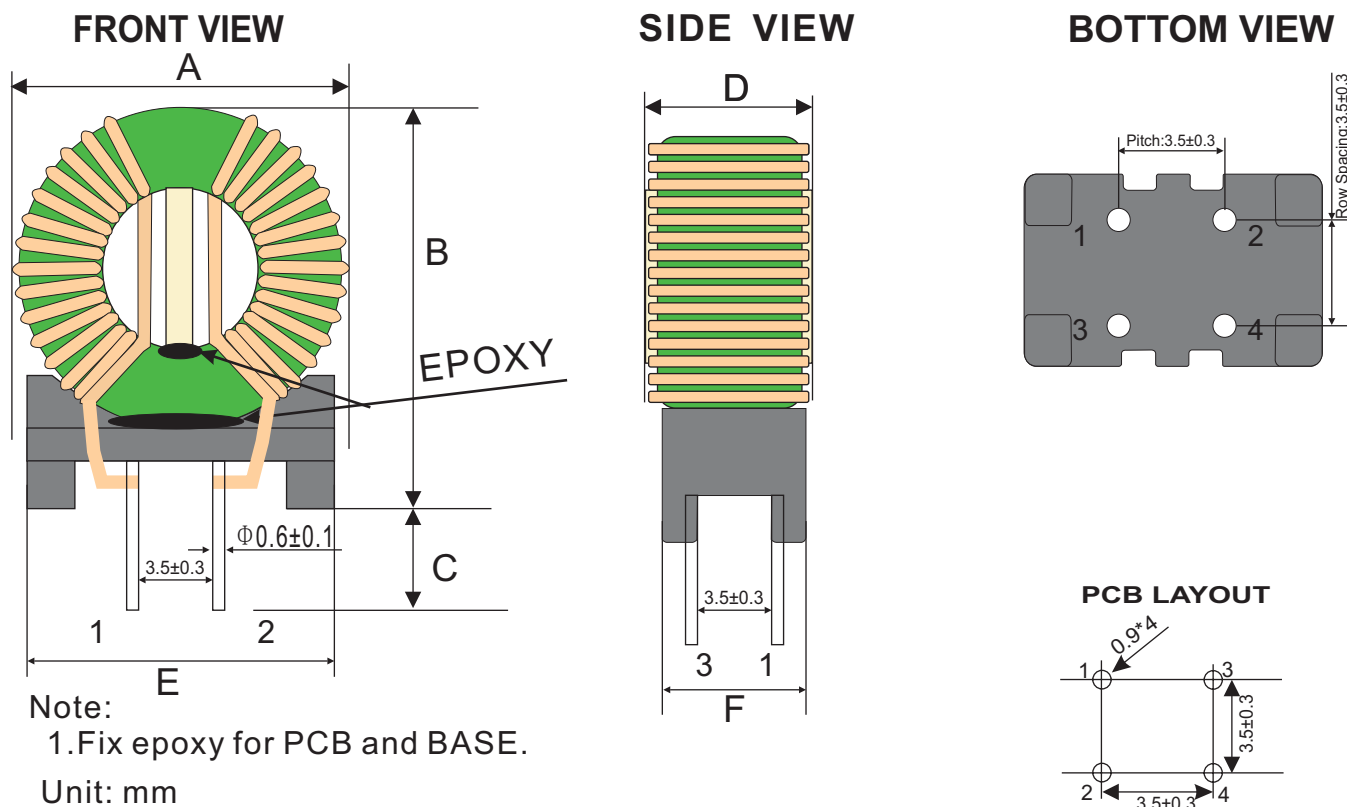
29810976

FAX: +86-755-29810159

Http://www.group-tek.com

E-mail:sale1@group-tek.com

2. Mechanical Dimensions:



A	B	C	D	E	F
+/-1.0	+/-0.5	+/-0.5	+/-1.0	+/-0.5	+/-0.5
12.0	14.3	3.8	7.0	9.0	5.8

3. Electrical Characteristics :

Specifications: at 25°C. Operating Temperature -40 to +125°C

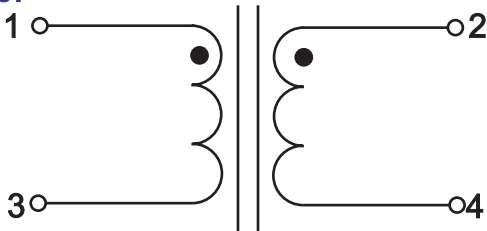
NO.	ITEM	TEST CONDITION	SPECIFICATION	REMARKS
1	Rated Voltage	Line to Line	AC250V	
2	Inductance	(1-3)(2-4) @16KHz, 1.0V	18mH+50% -30%	TH-2819
3	DCR	(1-3)(2-4) @25°C	500.0mΩ Max.	TH-2819
4	HI-POT	(1-3) to (2-4)	1500Vac, 1mA, 2SEC.	RK2670A
5	Rated current	@70°C	0.50A.	
6	ΔL	L(1-3)-L(2-4) @16KHz, 1.0V	0.60mH Max.	TH-2819

Remark: Use manual trigger mode of instrument for test.

4. Winding Information:

WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
1	1---3	0.25mm 2UEW	67±3.0T.				
2	2---4	0.25mm 2UEW	67±3.0T.				

5.Schematic:



6.Material List

NO.	ITEM.	MATERIALS	SUPPLIERS/MANUFAXTURES	UL FILE NO.
1	CORE	T10*6*5 TTS-TH10	TTS TechnologyCo.,Ltd.	N/A
2	WIRE	POLYURETHANE ENAMELED TYPE NO: 2UEW /MW 82-C Φ0.25mm THERMAL RATING:180°C	ZHU HAI SUNTEK WIRE COLTD	OBMW2.E234867
3	SOLDER	SN/CU: 99.3/0.7	Gao Xin stannum industry Co.,Ltd	N/A
4	Glue	E-500(XX) (E-504H-1)	Dong Guan city eatto electronic material Co.,Ltd	QMFZ2.E218090
5	BASE	PHENOLIC T375J UL RATING: 94V-0	CHANG CHUN PLASTICS CO LTD.	QMFZ2.E59481

7.Packing Information:

DESCRIPTION	QTY
PIECES PER CELL	1
PIECES PER TRAY	560
PIECES PER BOX	3360
GROSS WEIGHT PER BOX(KG)	10.14(kg)
NET WEIGHT PER BOX(KG)	9.50(kg)





