



RGB Polygon Topper

Part Number: 95-2852-00

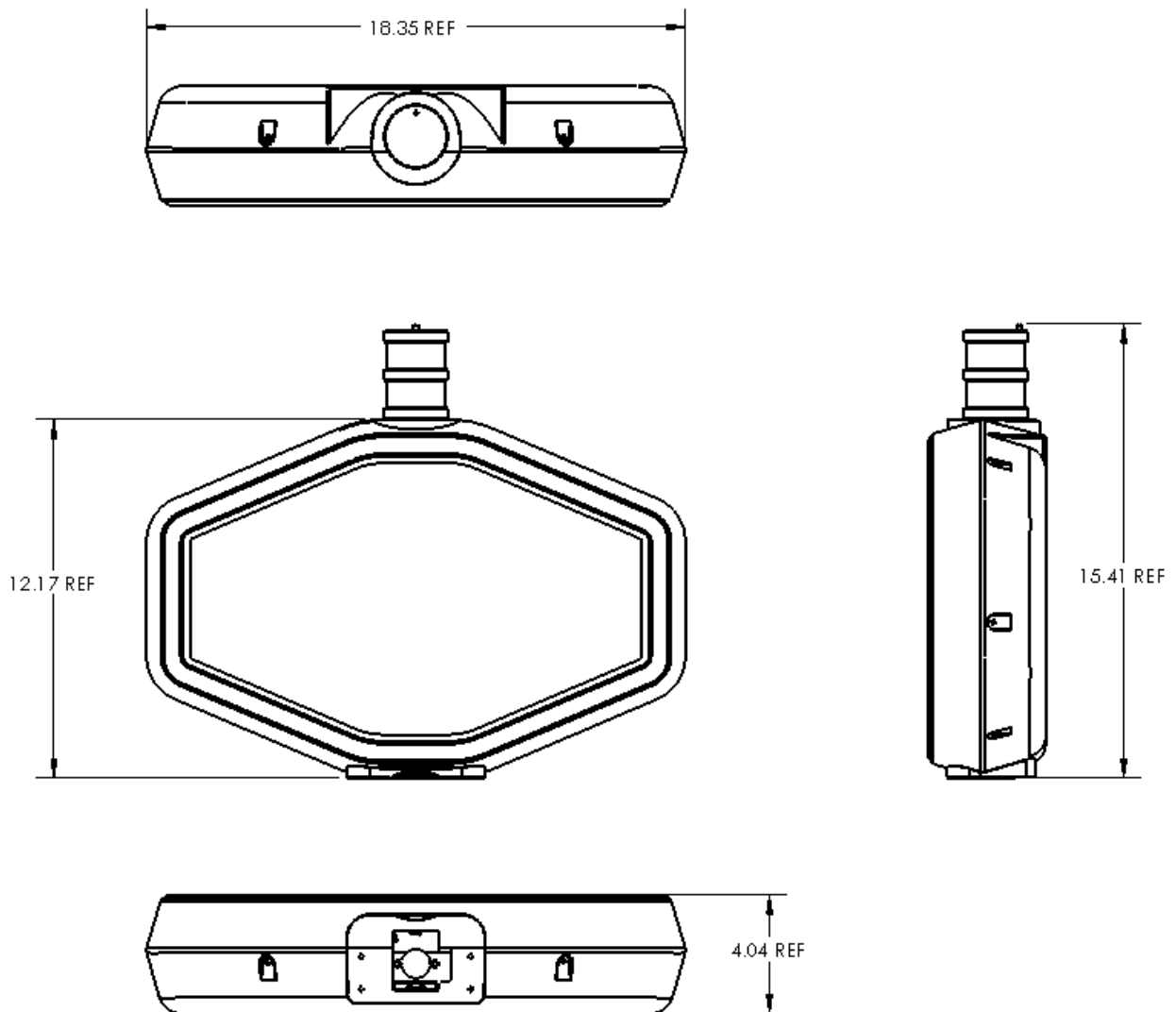
Warning: In case of removal of the diffuser bezel do not look straight into the LED's since this may cause serious eyes injuries!

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Features:

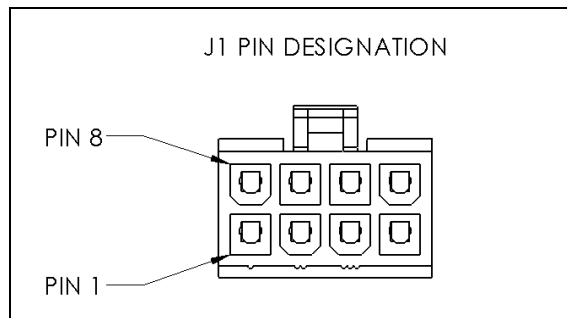
- Great for advertising special machine features such as Multi-Denomination, Ticket-In Ticket-Out, Hot New Game, Server Based Gaming, etc.
- Translucent bezel with 48 ultra bright Nichia multi-color RGB LED's provide light output for a multi-colored lightshow
- Pre-Programmed with 10 unique flashing patterns and 7 different color combinations
- Backlit by 3 white high power Sharp LED's
- Operates on 12vdc power
- Artwork panel is not included

Assembly Dimensions:



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Electrical Connections:



J1 CONNECTOR PIN-OUT (POWER)

PIN	COLOR	FUNCTION
1	RED	+12VDC MAIN PCBA
2	YELLOW	GROUND
3	BROWN	+V CANDLE
4	ORANGE	LAMP 1 - CANDLE
5	GREEN	LAMP 2 - CANDLE
6	BLUE	LAMP 3 - CANDLE
7	PURPLE	LAMP 4 - CANDLE
8	BLACK	+12VDC ~ +24VDC BACKLIGHT

J4 CONNECTOR PIN-OUT (GROUND)

PIN	COLOR	FUNCTION
1	GREEN /YELLOW STRIPE	EARTH GROUND

J1 = 6-pin Connector – Reference Molex Mini-fit – Housing #39-01-2080, Terminal #39-00-0065

J4 = .250" Insulated Female Disconnect – Reference Panduit DNF10-250FIB-2K

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Important:

- Shut-off the power from the host machine until installation work is completed.
- Power supply: 12VDC 3A minimum

Installation:

The topper can be mounted to a game cabinet by using one of the optional bases and the included hardware mounting kit. Please see www.suzohapp.com for details regarding the base and adapter harness options.

Installation Procedure – Main Topper Assembly:

1. Install the topper base and adaptor harness to the game cabinet using the appropriate hardware (refer to mounting information provided for your particular mounting base).
2. Remove the front bezel cover to gain access to the mounting holes at the bottom of the topper.
3. Place the topper on the top of the game cabinet and match the studs on the topper base to the holes at the bottom of the topper.
4. Attach the topper to the base using the M4 nut w/lockwasher (4pcs) and 4.3mm x 10.2mm washer (4pcs) provided in the included hardware kit.
5. Connect the main power harness (J1) and the ground harness (J2) to the topper base.
6. Connect the 4 light ring power connections to the light ring PCBAs on the front bezel cover.
7. Replace the front bezel cover and secure using the M4 x 8 screws (2pcs) provided in the hardware kit.

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Installing / Replacing the Graphic Panel:

1. Remove the front bezel assembly mounting screws (M4 x 8 screws - 2pcs)
2. Remove the front bezel assembly. Note that it may be necessary to apply pressure at the top section of the bezel assembly in order to release the snap features holding the front bezel to the rear housing assembly.
3. Remove the RGB LED PCBA connectors (4pcs), so that the front bezel assembly can be completely removed from the topper assembly.
4. Release the graphic panel clips (slide the clips away from the panel – there is no need to remove the screws).
5. Remove the diffuser.
6. Insert the graphic panel and replace the diffuser.
7. Slide the clips to hold the graphic panel and diffuser in place.
8. Reinsert the RGB PCBA connectors.
9. Replace the bezel assembly to the rear housing assembly. It is best if the bottom edge of the bezel assembly is lined up to the matching rear housing edge first. Then close the assembly by matching the edges of the front bezel to the rear housing and apply pressure until the assembly snaps into place.
10. Replace the bezel assembly mounting screws (M4 x 8 screws - 2pcs)

Installing / Replacing the Tower Light Color Foils:

The RGB Polygon Topper has been provided with a color foil kit that includes the most common color foils used in casinos per various jurisdictions. If you have special color foil requirements, or need replacement foils, please contact your Suzo-Happ representative.

1. Remove the M4 acorn nut at the top of the tower light.
2. Slide the top cap off to gain access to the top inner section of the tower light. If access is need to other sections, remove the clear outer tube and foil, and then slide the

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base platform and grounding ring from the mounting rod to gain access to the next section.

3. Once you have accessed the desired section, replace the coil foil. Be sure that the edges of the color foil meet at the rear of the candle (side that has the mounting rod).
4. Reassemble the candle and replace the mounting nut on the top cap.

Replacing the Tower Light Bulbs:

1. Gain access to the desired section by following the instructions above for the tower light disassembly.
2. Replace the bulb with the same or equivalent type.
3. Reassemble the tower light and secure using the mounting nut.

RGB Topper Operation:

Setting the Flashing Pattern Mode for the RGB Topper:

1. Press the MODE button once – The topper will switch to next flashing pattern and stay on this pattern until MODE button is activated again.
2. Once the desired pattern mode has been selected, it will be stored in memory (even after the topper power has been turned off).
3. Available patterns:

No.	Name of Pattern	Description
1	Rain	Multi colored segments (colors based on chosen color palette) that move from the top center of the light ring to the bottom center
2	Flashing Dashes	Segment dashes fill the light ring with the first color and then flash three times. The sequence repeats for each color from the chosen color palette.
3	Build	The light ring fills with the first color from the color palette, then a segment of the next color alternately drops from the left and the right from

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		the top center. The color segments build until the light ring is filled, then the sequence repeats with the next color.
4	Small Rotating Dashes	Segment dashes rotating CW. Color changes each half rotation per next color in chosen palette.
5	3 Colors Spinning	Each color of the chosen color palette fills one third of the light ring. The pattern rotates in one direction for 4 cycles and the reverses rotation for 4 cycles. The sequence repeats.
6	Rotating Fill	The color segments fill the light ring starting at the bottom center, and rotating CW until the light ring is filled with the chosen color from the color palette. The cycle then repeats with the next color from the palette.
7	3 Color Dashes Spinning	Same as “3 Colors Spinning” but with smaller light segments.
8	Big Dashes Spinning	Large segments of the same color that rotate CW, then CCW. The color changes to the next color in the palette and then the pattern repeats.
9	2 Color Fill	The light ring fills with the first color from the color palette, then a segment of the next color simultaneously drops from the left and the right from the top center. The color segments fill until the light ring is all the same color, then the sequence repeats with the next color.
10	Fill Half Rotate	The segments rotate CW filling half of the light ring with one color, then switching to the next color in the palette for the second half. The cycle continues with the next color in the palette.

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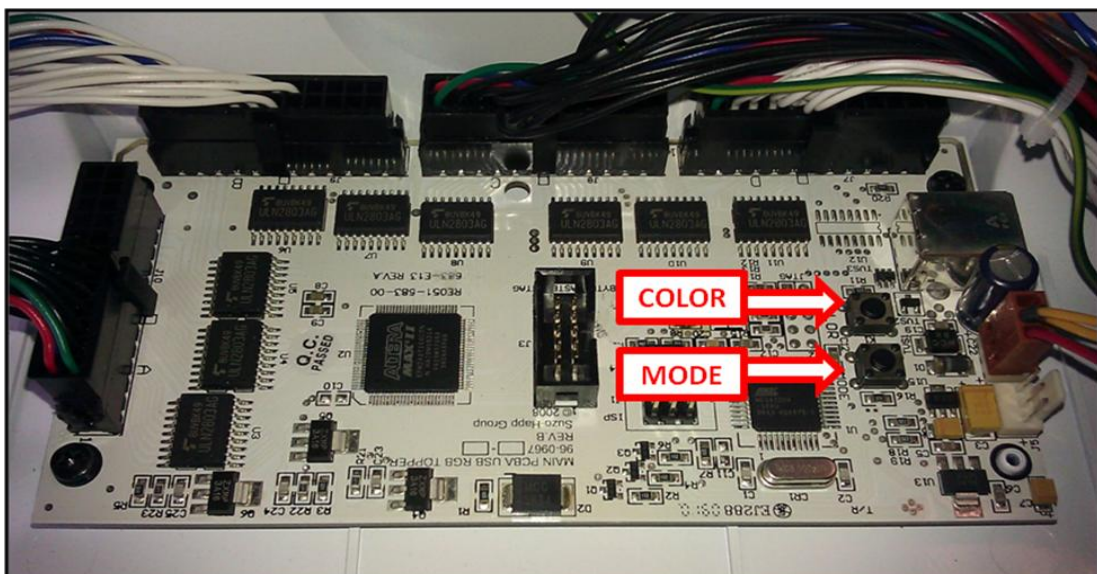
Setting the Color for the Topper:

The color palette can be selected from seven pre-defined combinations.

1. Select the desired flashing pattern mode.
2. Press the COLOR button on the main control board once. The Topper will switch to the next color palette available for this flashing pattern until COLOR button is activated again.
3. Once the desired color palette has been selected, it will be stored in memory (even after the topper power has been turned off).
4. The color palette settings are defined as follows:

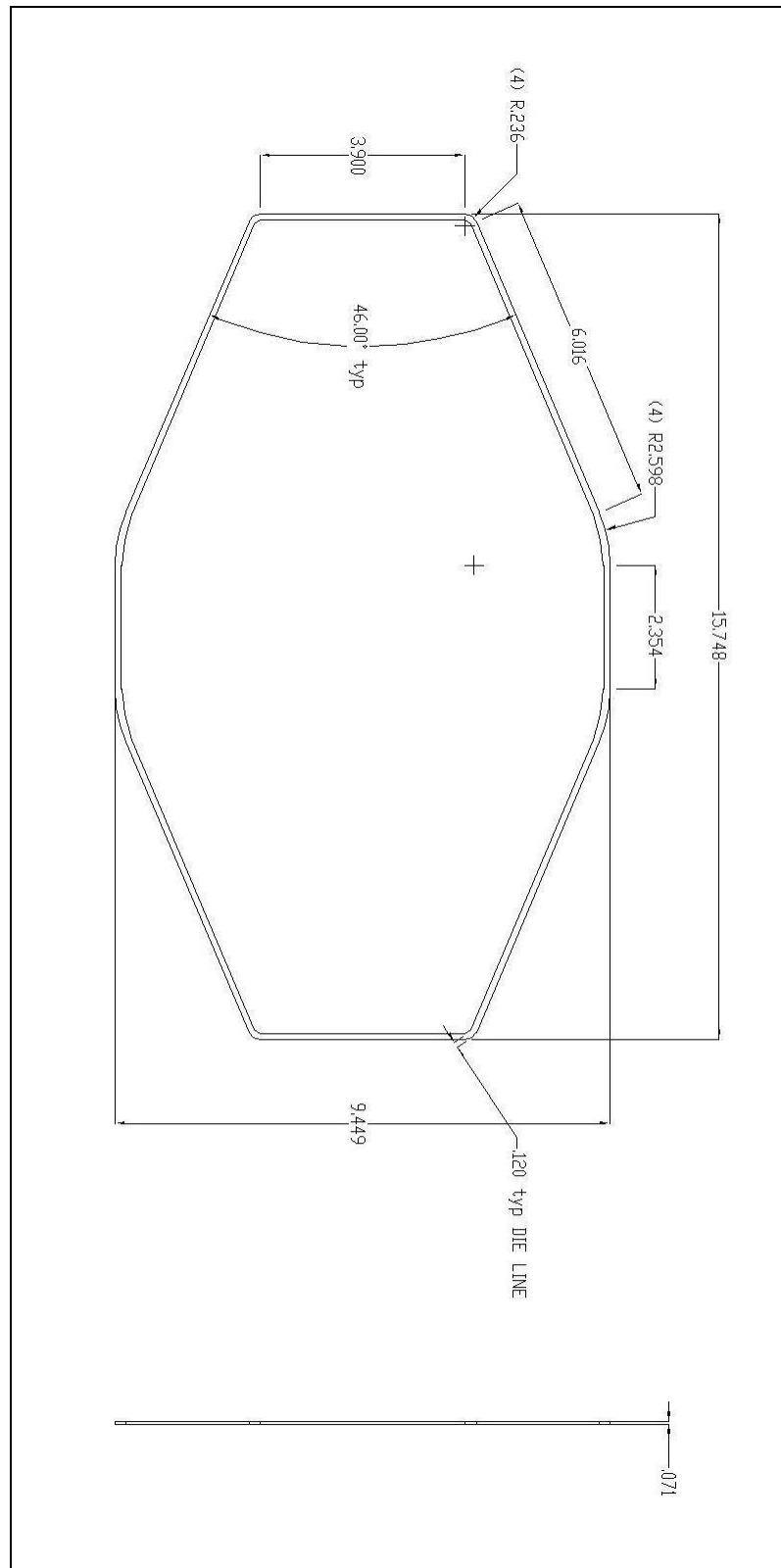
Color Palette	
1	Red - Blue - White (Default)
2	Red - White - Green
3	Red - Yellow - White
4	Blue - White - Yellow
5	Blue - Purple - White
6	Green - Blue - Yellow
7	Blue - Red - Green

Location of MODE and COLOR selection switches on the main PCBA:



Dimensions for Graphic Panel:

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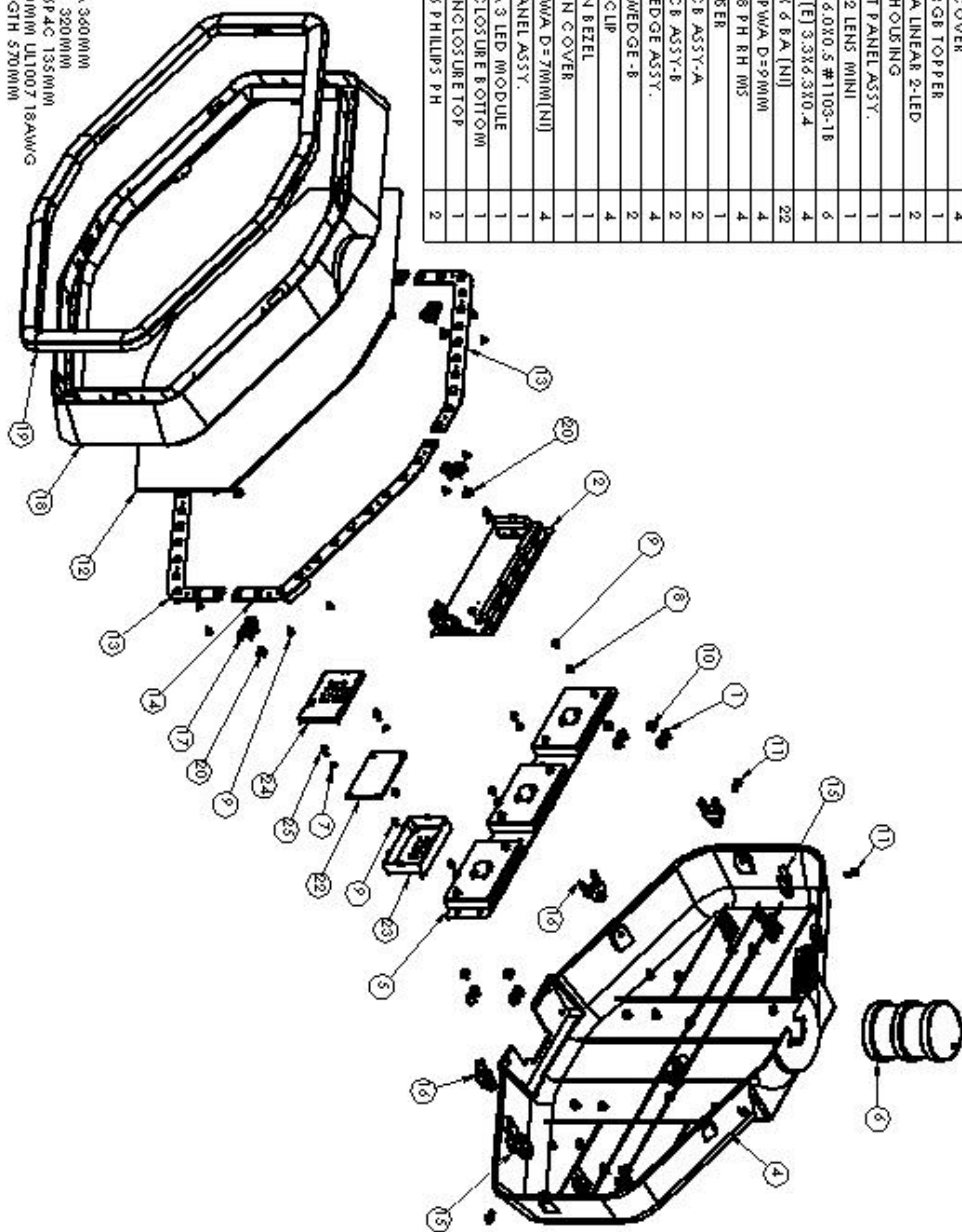
Note: The graphic panel is not included

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Exploded Drawing / Replacement Parts List:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	RP050-666-01RT	CABLE COVER	4
2	PS-09067-00	MAIN PCB A RGB TOPPER	1
3	50-4134-00	LED DRIVER PCB A LINEAR 2-LED	2
4	RP020-685-00	POLYCON HOLDING	1
5	PS-10644-00	POLYCON LIGHT PANEL ASSY.	1
6	RS-678-909-432	TOWER LIGHT, 2 LENS (MINI)	1
7	RM020-004-00	FIBRE WASH HER 3.3X0.5 #1103-18	4
8	RM020-002-00	TOOTH WASH HER (L) 3.3X0.5X0.4	4
9	RM0301-066-06	5 CREW 2.0 X 6 BA (NI)	22
10	RM361-064-06	5 CREW 02.6X8B WVA D=0MM	4
11	RM400-00-06-08	5 CREW, MAX8 PH RH M5	4
12	RP070-685-01	DIFFUSER	1
13	66S-E02-00	RGB LED PCB ASSY-A	2
14	66S-E03-00	RGB LED PCB ASSY-B	2
15	RS629-A03-01	CONNECT WEDGE ASSY.	4
16	RP090-623-02	CONNECT WEDGE -B	2
17	RP300-623-00	PLATE CLIP	4
18	RP010-685-00	POLYCON BEZEL	1
19	RP070-685-00	ILLUMINATION COVER	4
20	RM0361-026-08M	5 CREW 02.6X8 WVA D=7MM(NI)	4
21	PS-10665-00	PULL LIGHT PANEL ASSY.	1
22	50-41827-00	LED DRIVER PCB A3 LED MODULE	1
23	PS-6386-00	LED DRIVER EMI ENCLOSURE BOTTOM	1
24	PS-8257-00	LED DRIVER EMI ENCLOSURE TOP	1
25	48-2098-00	5 CREW M3 X 6 PHILLIPS PH	2

NOTES:
ITEMS NOT SHOWN:
P-6001-14-00 - CAN DIE SHOT FOR IL KIT
P-605-1402-00 - HA PD WA RE KIT
(1) R E078-685-01 (685-E02) CABLE ASSY 24P 15C-A-3600000
(2) R E078-685-02 (685-E03) CABLE ASSY 24P 15C-B-3200000
(1) R E078-685-04 (DWG# 685-E05) CABLE ASSY 6P 4C-1530000
(2) R E078-685-04 (DWG# 685-E05) CABLE ASSY 6P 4C-1530000
R E078-683-09 (DWG# 683-E12) GROUND WIRE 2000MM UL1007 18AWG
R E078-683-03 (683-E03) CABLE ASSY 8P/10P LENGTH 5700MM
R E131-683-01 FERRITE 6383-25012029-082
R E131-683-01 FERRITE 6383-25012029-082
(2) 04511739251 FAIR-RE TYPE 31 FERRITE CLAMP TYPE 2=100 @ 1000MMH
96-1138-00 ENVI ENCLOSURE GROUND HARNESS



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RoHS Compliance:

To our best knowledge, our products are in compliance with European Union Directive 2002/95/EC on the restriction of use of certain hazardous substances ("**RoHS Directives**").

FCC Compliance:

The RGB Polygon Topper had been tested and complied with the requirements of Federal Communication Commission [FCC] Rules and Regulations Part 15.

Note: 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

The equipment has been tested as a component in a typical configuration with a typical power supply. Since the host equipment can vary, and can affect, or be affected by this component, it is the responsibility of the purchaser to insure that the overall system maintains compliance with FCC regulations.

CE Compliance:

The RGB Polygon Topper had been tested and complied with the EMC requirements per CE (CISPR 22) standards.

Note: The specifications and information contained here are for quick reference only and are subjected to change without notice.

For more info: www.suzohapp.com