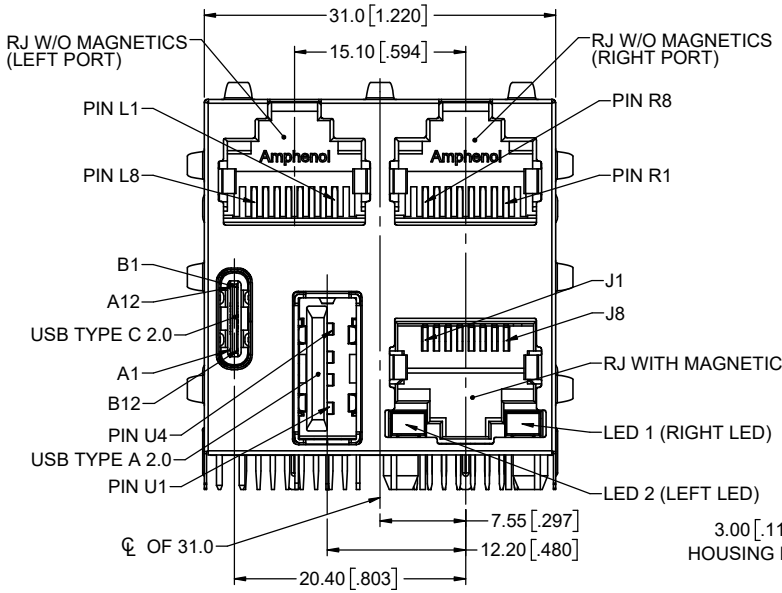
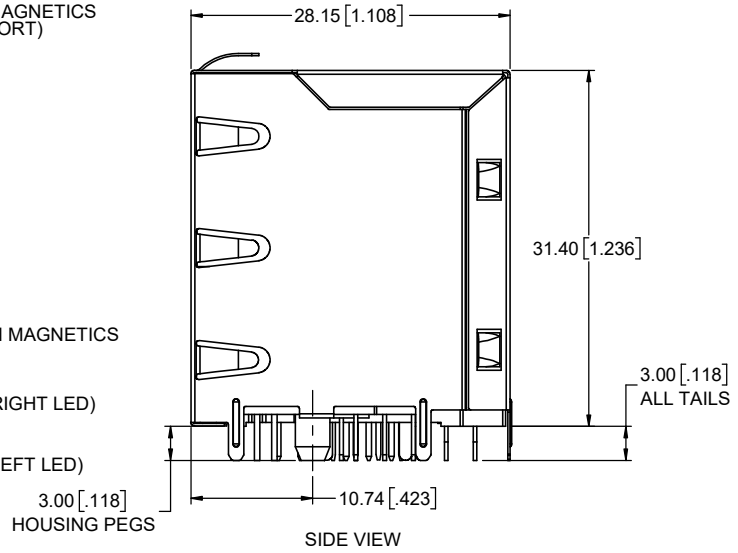
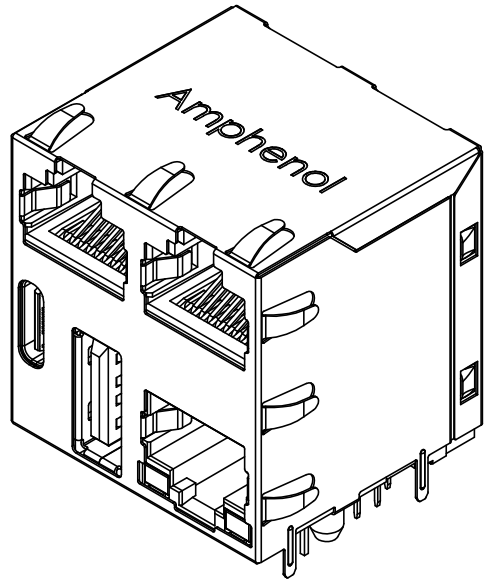
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN



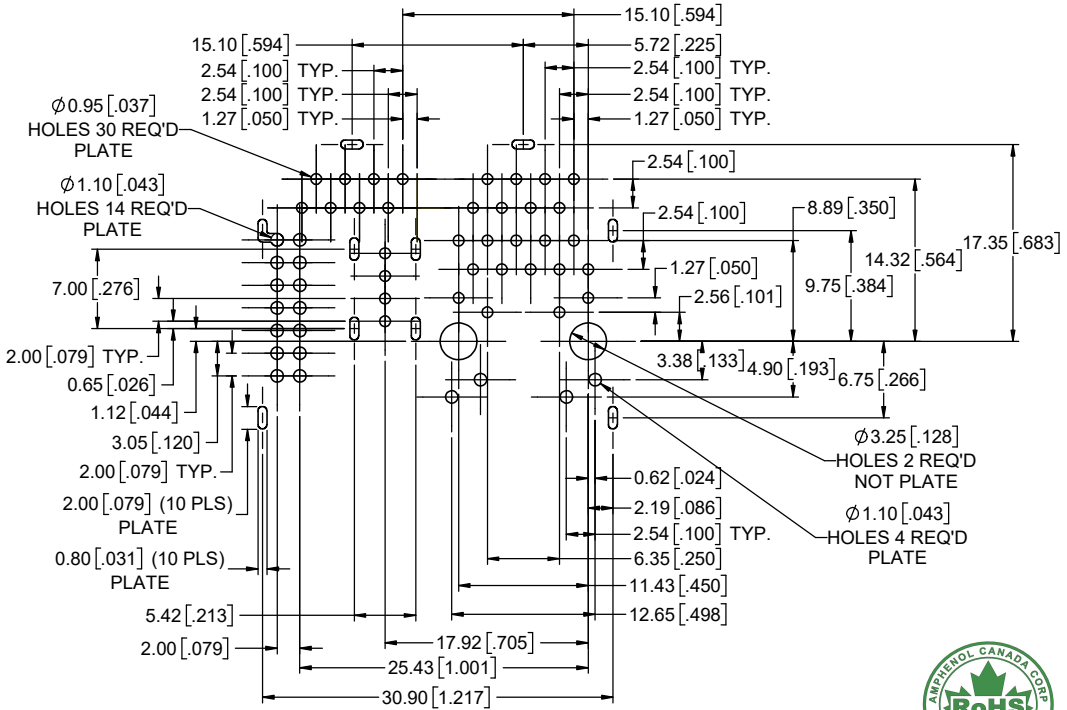
FRONT VIEW



SIDE VIEW



ISOMETRIC VIEW



RECOMMEND P.C.B LAYOUT
(TOLERANCE: ±0.05[±.002])
THICKNESS: 2.40[.094] MAXIMUM
COMPONENT SIDE OF BOARD

NOTES:

1. MATERIALS:
   CONTACTS: COPPER ALLOY
   PLATING:
   RJ45 & USB TYPE A 2.0 CONNECTORS:
   SELECTIVE GOLD PLATING ON MATING SURFACES
   SEE PART NO. FOR THICKNESS.
   NICKEL UNDERPLATE AND TIN ON CONTACT TAILS
   USB TYPE C 2.0 CONNECTORS:
   3 µ"[0.076 MICRONS] MIN. ON MATING SURFACES,
   NICKEL UNDERPLATE AND GOLD FLASH ON CONTACT TAILS
   MAIN HOUSING: ENGINEERING THERMOPLASTIC, FLAMMABILITY RATING UL94V-0,
   COLOUR: BLACK
   SHIELD: COPPER ALLOY OR STAINLESS STEEL WITH TIN FINISHED PCB TAILS.
2. RECOMMENDED SOLDERING TEMPERATURE:
   WAVE SOLDER PEAK TEMPERATURE 260 °C FOR 5 TO 8 SECONDS.
3. AMPHENOL PART NUMBER: RJE7G-588-XXX1-12

   SHIELD EMI TABS OPTIONS:
   1 = WITH EMI TABS
   2 = WITHOUT EMI TAB

   GOLD PLATING OPTIONS (EXCEPT USB TYPE C)
   0 = GOLD FLASH PLATING
   1 = 6µ" GOLD PLATING
   2 = 15µ" GOLD PLATING
   3 = 30µ" GOLD PLATING
   4 = 50µ" GOLD PLATING

   REFER TO LED OPTIONS ON PAGE 4 FOR ORDERING CODES.

UNLESS SPECIFIED OTHERWISE	DRAWN	RONNIE.C	JUL26/23
PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE ±0.38	ENG. REL. NO.		
2 DECIMAL PLACES ±0.25	REF.		
3 DECIMAL PLACES ±0.10	THIRD ANGLE PROJECTION	DO NOT SCALE DRAWING	
ANGULAR DEGREES ±2°			

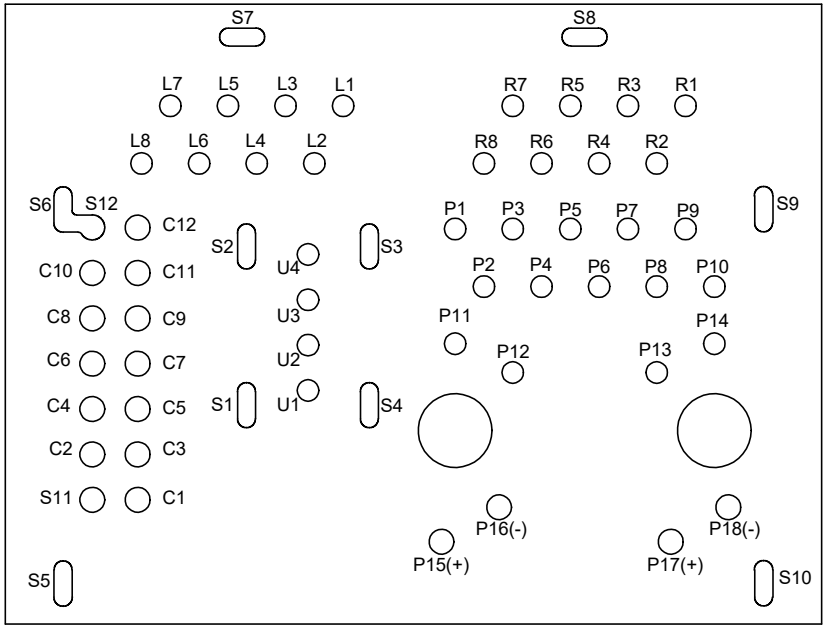
Amphenol Canada Corp.
Commercial Products

COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WTIH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT

DWG. NO.	REV
P-RJE7G-588-XXX1-12	A

CODE ID NO.	DWG SIZE	SCALE	SHEET
03554	X	3:1	1 OF 4

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN



PCB SIGNAL MARKED VIEW
(SCALE 8:1)

USB TYPE A 2.0 PIN ASSIGNMENT	
PIN NUMBER	SIGNAL NAME
U1	VBUS
U2	D-
U3	D+
U4	GND
S1 TO S4	SHIELD

RJ W/O MAGNETICS PIN ASSIGNMENT	
PIN NUMBER	SIGNAL NAME
L1,R1	TX+_D1(Transmit Data+)
L2,R2	TX-_D1(Transmit Data-)
L3,R3	RX+_D2(Receive Data+)
L4,R4	BI+_D3(Bi-directional+)
L5,R5	BI-_D3(Bi-directional-)
L6,R6	RX-_D2(Receive Data-)
L7,R7	BI+_D4(Bi-directional+)
L8,R8	BI-_D4(Bi-directional-)
S5 TO S10	SHIELD

USB TYPE C 2.0 PIN ASSIGMENT		
PIN NUMBER		SIGNAL NAME
BOARD SIDE	CABLE SIDE	
C1	A1, B12	GND
C2	B8	SBU2
C3	--	GND (SEE PIN ASSIGNMENT NOTE 1)
C4	A4, B9	VBUS
C5	A6, B6	DP
C6	B4, A9	VBUS
C7	A7, B7	DN
C8	A5	CC1
C9	--	GND (SEE PIN ASSIGNMENT NOTE 1)
C10	B5	CC2
C11	A8	SBU1
C12	B1, A12	GND
S11, S12	--	SHIELD

RJ WITH MAGNETICS PIN ASSIGNMENT			
CABLE SIDE		BOARD SIDE	
PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
J1	MX0+	P1	MD0+
J2	MX0-	P2	MD0-
J3	MX1+	P3	MD1+
J4	MX2+	P4	MD1-
J5	MX2-	P5	MD2+
J6	MX1-	P6	MD2-
J7	MX3+	P7	MD3+
J8	MX3-	P8	MD3-
--	--	P9	--
--	--	P10	GND
--	--	P11	MDCT0
--	--	P12	MDCT1
--	--	P13	MDCT2
--	--	P14	MDECT3

PIN ASSIGNMENT NOTES:

1. THE STANDALONE CONNECTOR ALREADY CONNECTS THE C3 AND C1, CONNECTS THE C9 AND C12, THE CUSTOMER DOES NOT NEED TO GROUND C3 AND C9 WHEN DESIGNING THE PC BOARD.
2. ALL PIN ASSIGNMENT ARE "GND" AND "SHIELD" WHICH REQUIRE THE CUSTOMER TO BE GROUNDED WHEN DESIGNING THE PC BOARD, INCLUDING:
   --U4, S1 TO S4 FOR USB TYPE A 2.0
   --S5 TO S10 FOR RJ W/O MAGNETICS
   --P10 FOR RJ WITH MAGNETICS
   --C1, C12, S11, S12 FOR USB TYPE C 2.0

UNLESS SPECIFIED OTHERWISE	DRAWN	RONNIE.C	JUL26/23
PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE ±0.38	ENG. REL. NO.		
2 DECIMAL PLACES ±0.25	REF.		
3 DECIMAL PLACES ±0.10	THIRD ANGLE PROJECTION	DO NOT SCALE DRAWING	
ANGULAR DEGREES ±2°			

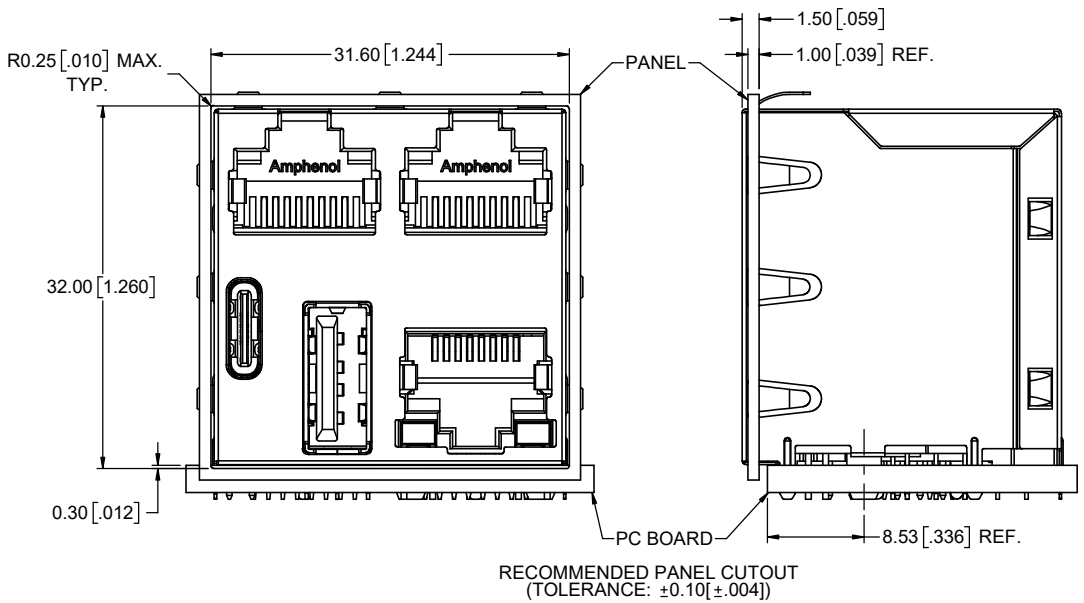
Amphenol Canada Corp.
Commercial Products

COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WTIH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT

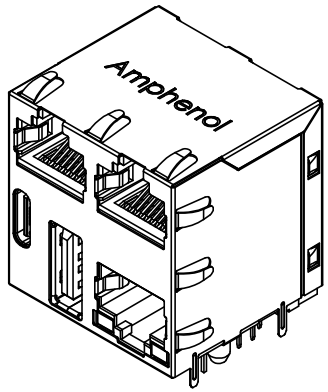
DWG. NO.	REV
P-RJE7G-588-XXX1-12	A

CODE ID NO.	DWG SIZE	SCALE	SHEET
03554	X	3:1	2 OF 4

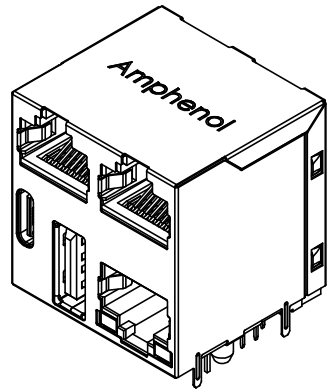
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN



RECOMMENDED PANEL CUTOUT
(TOLERANCE: ±0.10[±.004])

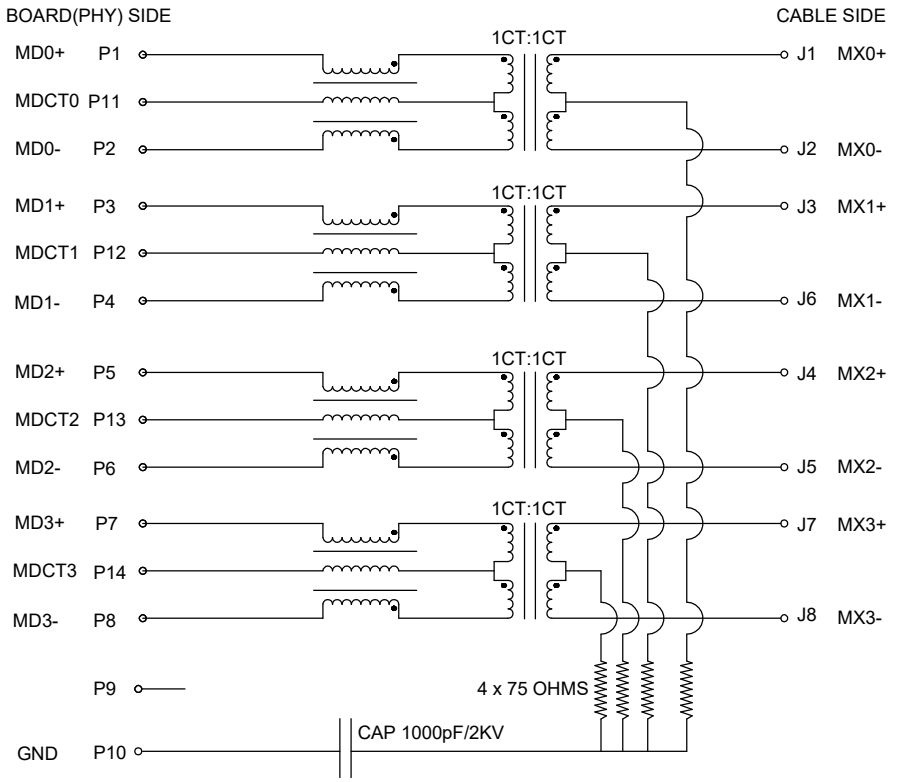


PN: RJE7G-588-1XX1-12
(SHIELD WITH EMI TABS AS SHOWN)



PN: RJE7G-588-2XX1-12
(SHIELD WITHOUT EMI TAB AS SHOWN)

RJ45 WITH MAGNETICS SCHEMATICS:



ELECTRICAL SPECIFICATION @25°C FOR RJ45 WITH MAGNETICS:

1. TURN RATIO @100KHz:
   (P1-P2): (J1-J2) = 1:1 ±5%
   (P3-P4): (J3-J6) = 1:1 ±5%
   (P5-P6): (J4-J5) = 1:1 ±5%
   (P7-P8): (J7-J8) = 1:1 ±5%

2. PRIMARY INDUCTANCE:
   (P1-P2): 350µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
   (P3-P4): 350µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
   (P5-P6): 350µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS
   (P7-P8): 350µH MINIMUM @ 100KHz, 0.1V, 8mA DC BIAS

3. DC TESISTANCE:
   (J1-J2):(J3-J6):(J4-J5):(J7-J8) = 1.2 OHMS MAXIMUM

4. INSERTION LOSS:
   1 TO 100MHz: -1.0dB MAXIMUM
   100 TO 125MHz: -1.2dB MAXIMUM

5. RETURN LOSS:
   1 TO 40MHz: -16dB MINIMUM
   40 TO 60MHz: -12dB MINIMUM
   60 TO 80MHz: -10dB MINIMUM
   80 TO 100MHz: -8dB MINIMUM

6. CROSS TALK: -30dB MINIMUM

7. ISOLATION: PHY SIDE TO CABLE SIDE: 2,250VDC

8. COMMON TO COMMON MODE ATTENUATION: -30dB MIMIMUM @1MHz TO 100MHz

UNLESS SPECIFIED OTHERWISE	DRAWN	RONNIE.C	JUL26/23
PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE ±0.38	ENG. REL. NO.		
2 DECIMAL PLACES ±0.25	REF.		
3 DECIMAL PLACES ±0.10	THIRD ANGLE PROJECTION	DO NOT SCALE DRAWING	
ANGULAR DEGREES ±2°			

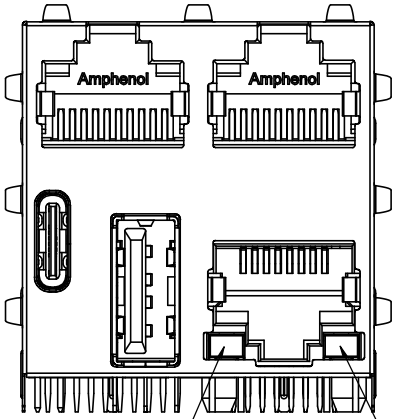
Amphenol Canada Corp.
Commercial Products

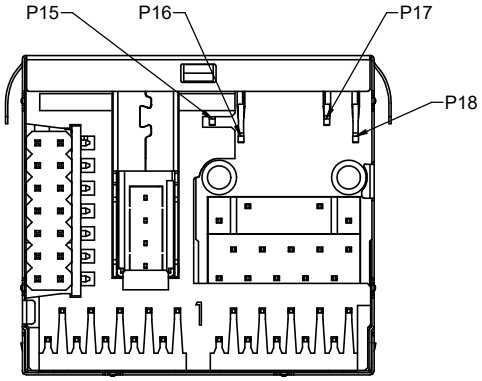
COMM COMBO CONNECTOR, TWO GENERAL MODULAR JACKS, WITH A RJ45 1G MAG WTIH LEDS, A USB TYPE A 2.0 AND A USB TYPE C 2.0 RECEPTACLE-RoHS COMPLIANT

DWG. NO. P-RJE7G-588-XXX1-12 REV A

CODE ID NO. 03554 | DWG SIZE: X | SCALE: 3:1 | SHEET 3 OF 4

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	INITIAL RELEASE	JUL26/23	KELVIN





EXAMPLE:
AMPHENOL PART NUMBER: RJE7G-588-13X1-12

LED COLOR CODE

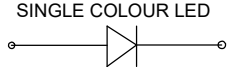
CODE	LED 2 (LEFT)	LED 1 (RIGHT)	CODE	LED 2 (LEFT)	LED 1 (RIGHT)	CODE	LED 2 (LEFT)	LED 1 (RIGHT)
0	BLOCKED	BLOCKED	9	GREEN	BLOCKED	J	BiC RD/GR	YELLOW
1	YELLOW	GREEN	A	BiC GR/YE	BiC GR/YE	K	YELLOW	BiC GR/OR
2	BLOCKED	GREEN	B	BiC RD/GR	BiC RD/GR	L	BiC GR/YE	RED
3	YELLOW	BLOCKED	C	Bic RD/GR	BiC GR/YE	M	RED	YELLOW
4	GREEN	YELLOW	D	GREEN	BiC GR/YE	N	BiC GR/RD	BiC GR/YE
5	GREEN	GREEN	E	YELLOW	BiC GR/YE	P	GREEN	BiC RD/GR
6	YELLOW	YELLOW	F	BiC GR/YE	GREEN	R	BiC GR/OR	GREEN
7	RED	GREEN	G	BiC GR/OR	BiC GR/OR	T	RED	RED
8	GREEN	RED	H	BiC GR/YE	GREEN	V	BiC RD/GR	GREEN

NOTES:

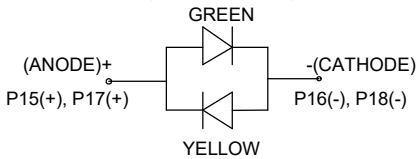
1. PRIMARY COLOR FOR BI-COLOR LEDS IN STANDARD ANODE/CATHODE CONFIGURATION IS:
RED-GREEN = RED
RED-YELLOW = RED
GREEN-YELLOW = GREEN

2. LEGEND:
BiC = BI-COLOR LED
YE = YELLOW
GR = GREEN
RD = RED
OR = ORANGE

SINGLE COLOUR LED



BI-COLOUR GREEN/YELLOW LED
(E.G. BIC GR/YE)



LED SCHEMATIC

UNLESS SPECIFIED OTHERWISE	DRAWN	RONNIE.C	JUL26/23
PRIMARY UNITS MILLIMETRES	CHECKED	KELVIN.T	JUL26/23
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
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ANGULAR DEGREES ±2°			

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DWG. NO. P-RJE7G-588-XXX1-12 REV A

CODE ID NO. 03554 | DWG SIZE: X | SCALE: 3:1 | SHEET 4 OF 4