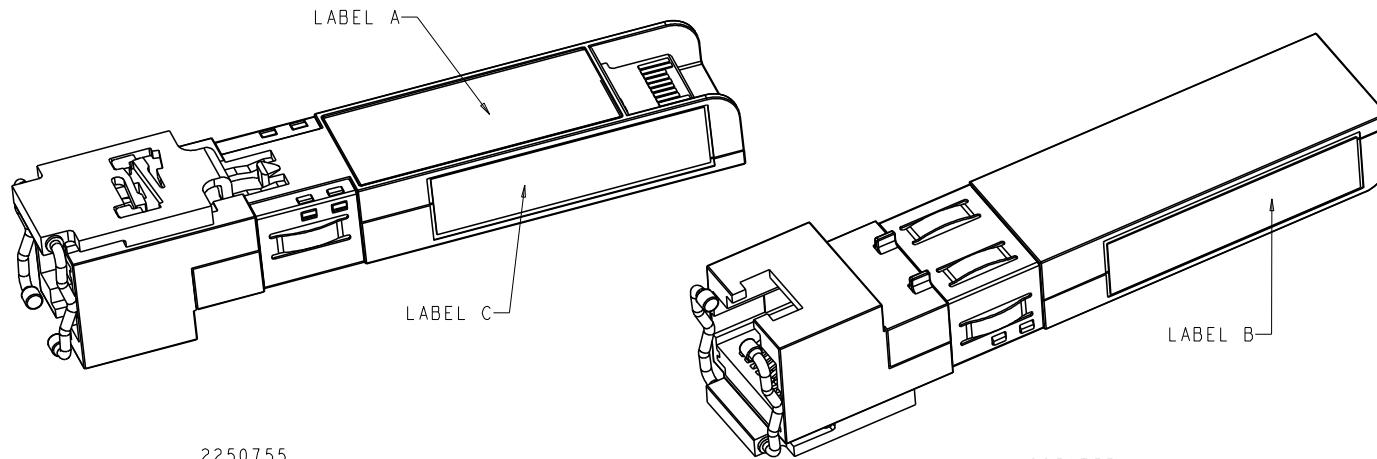


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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS				
REV	DATE	DESCRIPTION	BY	APPD
7	11JUL2025	EC-2507005.	PG	TY



2250755
3D VIEW 1

2250755
3D VIEW 2

1. MATERIAL:
PLASTIC HOUSINGS: BLACK, THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
SHELLS: ZINC ALLOY, PLATED WITH BRIGHT NICKEL.
SHIELD: STAINLESS STEEL.
CONTACTS: PHOSPHOR BRONZE PLATED WITH 1.27um MIN NICKEL OVERALL
UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE.
LATCH PLASTIC: BLACK, THERMOPLASTIC.
FLAMMABILITY RATING UL 94V-0.
LATCH RING-PULL : STAINLESS STEEL, Ø1.00mm

2. MAGNETICS:
APPLICATION: 10G BASE-T
- IMPEDANCE: 100 OHMS
- OPEN CIRCUIT INDUCTANCE (OCL): 160 uH (MIN), 0.1VRMS 100KHZ
WITH 8 mA DC BIAS, 25°C.
- TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
- ALL 4 PAIRS ARE BIDIRECTIONAL
ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

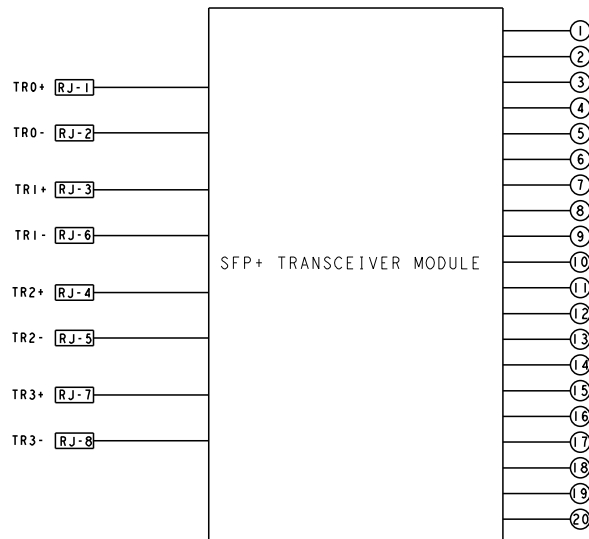
3. OPERATING TEMPERATURE: 0°C TO +70°C

4. RJ45 PORT CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min.	Max.	Units
T _J	Junction Temperature	0	108	°C
T _{JST}	Short-Term Junction Temperature	0	110	°C

7TG159 10G CIRCUIT

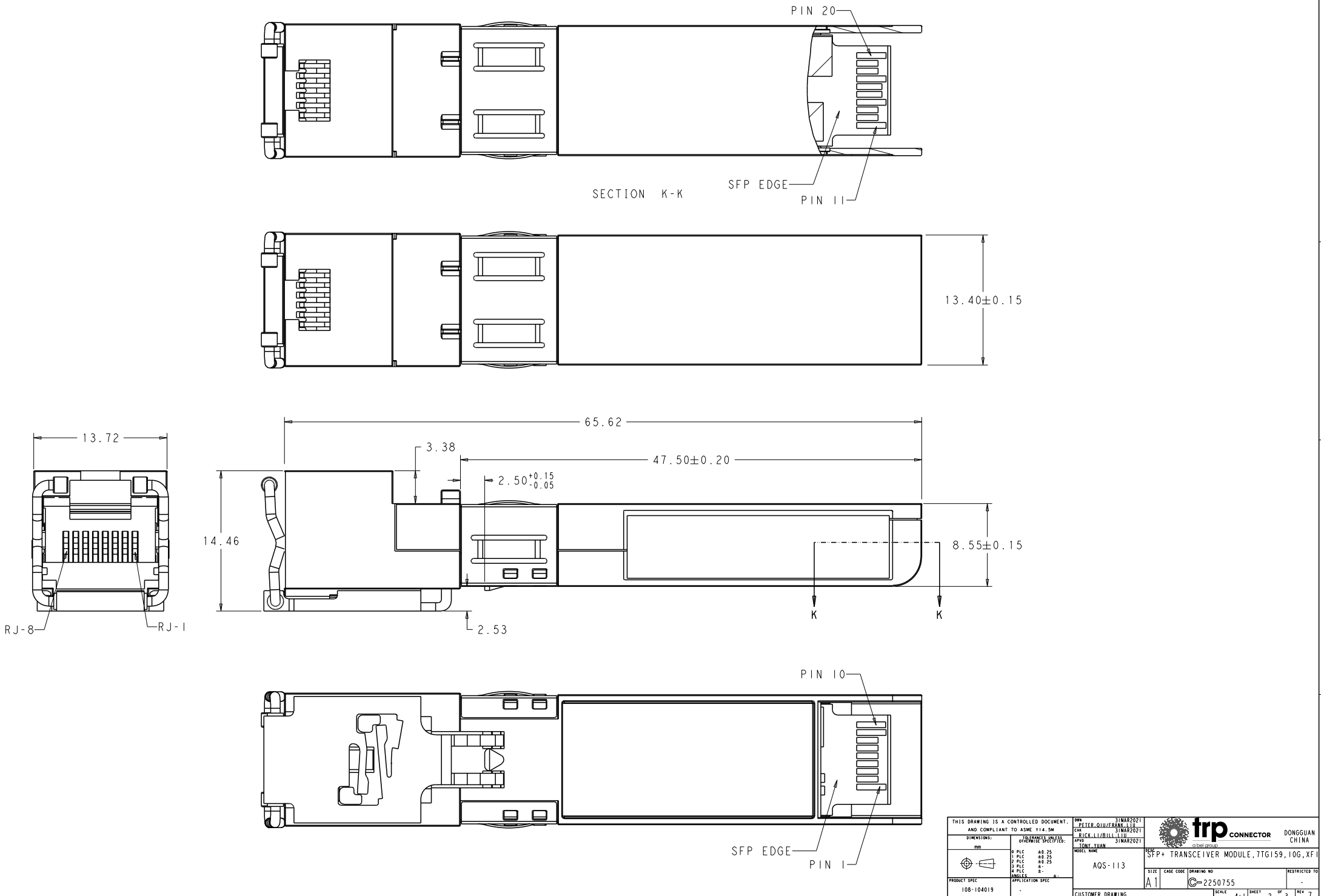


PIN ASSIGNMENTS

Toward Host			Toward Bezel		
Pin No.	Name	Description	Pin No.	Name	Description
11	VeeR	Module Receiver Ground	10	VeeR	Module Receiver Ground
12	RD-	Receiver Inverted Data Output	9	RS1	Rate Select 1
13	RD+	Receiver Noninverted Data Output	8	RX_LOS	Receiver Loss of Signal Indication
14	VeeR	Module Receiver Ground	7	RS0	Rate Select 0
15	VccR	Module Receiver 3.3V	6	MOD_ABS	Module Absent
16	VccT	Module Transmitter 3.3V Supply	5	SDL	2-Wire Serial Interface Clock
17	VeeT	Module Transmitter Ground	4	SDA	2-Wire Serial Interface Data Line
18	TD+	Transmitter Noninverted Data Input	3	TX_DISABLE	Transmitter Disable
19	TC-	Transmitter Inverted Data Input	2	TX_FAULT	Transmitter Fault
20	VeeT	Module Transmitter Ground	1	VeeT	Transmitter Ground

	V	V	460-000006	2250755-5
	V	V	/	2250755-4
	V	V	740-123734	2250755-3
	V	V	AQS-113-AX-1	2250755-2
	V	V	/	2250755-1
LABEL C	LABEL B	LABEL A	CUSTOMER PART NUMBER	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT, AND COMPLIANT TO ASME Y14.5M		DRN: 31MAR2021 CHK: PETER.QUIRAN@TRP APP: RICK.LI@TRP 31MAR2021	 DONGGUAN CHINA
DIMENSIONS: mm		MODEL NAME: AQS-113	
PRODUCT SPEC: 10G-104019	APPLICATION SPEC: -	SIZE: A1	REVISION: 1
CUSTOMER DRAWING		SCALE: 4:1	SHEET 1 OF 3



THIS DRAWING IS A CONTROLLED DOCUMENT,
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS:

mm

PRODUCT SPEC

10S-104019

FOR TRANSCEIVER ONLY
DIMENSION SPECIFIED:

0 PL C A0 25

1 PL C A0 25

2 PL C A0 25

3 PL C A0 25

4 PL C A0 25

5 PL C A0 25

6 PL C A0 25

7 PL C A0 25

8 PL C A0 25

9 PL C A0 25

10 PL C A0 25

11 PL C A0 25

12 PL C A0 25

13 PL C A0 25

14 PL C A0 25

15 PL C A0 25

16 PL C A0 25

17 PL C A0 25

18 PL C A0 25

19 PL C A0 25

20 PL C A0 25

APPLICATION SPEC

-

DPN: 31MAR2021

CHK: PETER.QIU/ZEKANG.LIU

APP: 31MAR2021

MODEL NAME: AQS-113

CUSTOMER DRAWING

trp CONNECTOR DONGGUAN CHINA

SIZE: A1

CAGE CODE: C=2250755

DRAWING NO: 10S-104019

RESTRICTED TO: -

SCALE: 4:1

SHEET: 2

OF: 3

REV: 7

2250755					STOCK DISPOSITION			
					A: CONTINUE AS IS B: REWORK C: SCRAP	D: USE OLD FIRST E: PARTS TO CONFORM F: OTHER		
REVISION HISTORY					INVENTORY (A,B,C,D,E,F)	WORK IN PROCESS (A,B,C,F)	SUPPLIER ORDERS (A,E,F)	OPEN CUST ORDERS (A,E,F)
DATE	REV	CHANGES	REASON	APPROVAL				
31MAR2021	1	INITIAL RELEASE.	INITIAL RELEASE.	TONY YUAN	-	-	-	-
8APR2021	2	1. REMOVE THE WATERMARK. 2. MAKE THE DIMENSION NUMBERS LARGER. 3. ADD LABER B FOR 2250755-3.	ENGINEERING CHANGE.	TONY YUAN	-	-	-	-
16JUL2021	3	1. CHANGE AQS-113-CX-1-SP TO AQS-113-CX-1. 2. CHANGE AQS-113-AX-1-SP TO AQS-113-AX-1. 3. CHANGE AQS-113-JX-1-SP TO AQS-113-JX-1.	ENGINEERING CHANGE.	TONY YUAN	-	-	-	-
12MAY2022	4	SHEET 1, A1 AREA , DELETE CUSTOMER PART NUMBER AQS-113-CX-1. SHEET 1, A1 AREA , CHANGE THE CUSTOMER PART NUMBER FROM AQS-113-JX-1 TO 740-123734.	ENGINEERING CHANGE.	TONY YUAN	-	-	-	-
13MAR2023	5	1. ADD P/N 2250755-4.	ENGINEERING CHANGE.	TONY YUAN	-	-	-	-
25JUN2024	6	1. ADD P/N 2250755-5.	ENGINEERING CHANGE.	TONY YUAN	-	-	-	-
11JUL2025	7	1. CHANGE THE MODEL NAME FROM MAGJACK SINGLE Non-PoE TO AQS-113.	ENGINEERING CHANGE.	TONY YUAN	-	-	-	-