

BPON/GPON and Video PON Module List with Specifications

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PON Module List

Part No.:

N U - 3 3 L 3 5 L - P

Code	Type
NU	ONU
DNU	ONU (DFB LD)
LT	OLT

Code	TX Speed
3	155 Mbps
5	622 Mbps
7	1.25 Gbps
9	2.5 Gbps

Code	TX Wavelength
3	1310 nm
4	1490 nm
5	1550 nm

Code	TX Output Power
L	Low Power
M	Medium Power
B	G/BPON, Class B
C	G/BPON Class B
D	EPON 10 km IEEE 802ah1000BASE-PX20
F	EPON 15 km IEEE 802ah1000BASE Modified
E	EPON 20 km IEEE 802ah1000BASE-PX20
G	EPON 10 km Extended for 30dB power budget
K	EPON 15 km Extended for 30dB power budget
H	EPON 20 km Extended for 30dB power budget

Code	RX Speed
3	155 Mbps
5	622 Mbps
7	1.25 Gbps
9	2.5 Gbps

Code	RX Wavelength
3	1310 nm
4	1490 nm (3W-TRX™)
5	1550 nm

Code	RX Sensitivity
L	Standard LEPON™
B	G/BPON Class B
C	G/BPON, Class C
D/F	EPON 10/15km
E	EPON 20 km
G/K	EPON 10/15km Extended for 30dB power budget
H	EPON 20 km Extended for 30dB power budget

Code	Package
KB	2X6 SFF ONU (2R) K=P: Pigtailed, K=R: Receptacle
KC	2X6 SFF OLT (2R) K=P: Pigtailed, K=R: Receptacle
KCH	2X6 SFF OLT (2R)/Hi Sensitivity K=P: Pigtailed, K=R: Receptacle
KM	2x5 SFF ONU (2R)/622Mbps/1.25Gbps K=P; Pigtail, K=R; Receptacle
SFP	SFP Standard

SC/UPC is standard connector.

The 3W-TRX device was co-developed by Zenko Technologies, Inc. and Optoway Technology (US Patent 7,062,171).

Passive Optical Networks (PON)/Video-Overlay PON (VPON)

LEPON™ SERIES

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-35L33L-K	CNT	155	1550 FP	-8 to -13	BM, 2R	155	1310	-32	-12	0 to 70	2X5	SFF
LT-34L33L-K	CNT	155	1490 DFB	-8 to -13	BM, 2R	155	1310	-32	-12	0 to 70	2X5	SFF
LT-35M33L-K	CNT	155	1550 FP	-4 to -9	BM, 2R	155	1310	-32	-12	0 to 70	2X5	SFF
LT-34M33L-K	CNT	155	1490 DFB	-4 to -9	BM, 2R	155	1310	-32	-12	0 to 70	2X5	SFF
LT-35B33B-K*	CNT	155	1550 FP	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X5	SFF
LT-34B33B-K*	CNT	155	1490 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X5	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-33L35L-K	BM	155	1310 FP	-8 to -13	CNT, 2R	155	1550	-32	-5	0 to 70	2X5	SFF
NU-33L34L-K (3W-TRX)™ Video Overlay	BM	155	1310 FP	-8 to -13	CNT, 2R	155	1490	-32	-5	0 to 70	2X5	SFF
NU-33M35L-K	BM	155	1310 FP	-4 to -9	CNT, 2R	155	1550	-32	-5	0 to 70	2X5	SFF
NU-33M34L-K (3W-TRX)™ video Overlay	BM	155	1310 FP	-4 to -9	CNT, 2R	155	1490	-32	-5	0 to 70	2X5	SFF
NU-33B35B-K*	BM	155	1310 FP	2 to -4	CNT, 2R	155	1550	-30	-5	0 to 70	2X5	SFF
NU-33B34B-K* (3W-TRX)™ Video Overlay	BM	155	1310 FP	2 to -4	CNT, 2R	155	1490	-30	-5	0 to 70	2X5	SFF

BPON SERIES (ITU-T G983.1)

155 MBPS DOWNSTREAM / 155 MBPS UPSTREAM

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-35B33B-KM	CNT	155	1550 FP	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X5	SFF
LT-34B33B-KM	CNT	155	1490 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X5	SFF
LT-35B33B-KC	CNT	155	1550 FP	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X6	SFF
LT-34B33B-KC	CNT	155	1490 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-33B35B-KM	BM	155	1310 FP	2 to -4	CNT, 2R	155	1550	-30	-5	0 to 70	2X5	SFF
NU-33B34B-KM (3W-TRX) TM Video Overlay	BM	155	1310 FP	2 to -4	CNT, 2R	155	1490	-30	-5	0 to 70	2X5	SFF
NU-33B35B-KB	BM	155	1310 FP	2 to -4	CNT, 3R	155	1550	30	-5	0 to 70	2X6	SFF
NU-33B34B-FB (3W-TRX) TM Video Overlay	BM	155	1310 FP	2 to -4	CNT, 3R	155	1490	-30	-5	0 to 70	2X6	SFF

622 MBPS DOWNSTREAM / 155 MBPS UPSTREAM (ITU-T G983.1)

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-55B33B-KM	CNT	622	1550 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X5	SFF
LT-54B33B-KM	CNT	622	1490 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X5	SFF
LT-55B33B-KC	CNT	622	1550 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X6	SFF
LT-54B33B-KC	CNT	622	1490 DFB	2 to -4	BM, 2R	155	1310	-30	-8	0 to 70	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-33B55B-KM	BM	155	1310 FP	2 to -4	CNT, 2R	622	1550	-29	-5	0 to 70	2X5	SFF
NU-33B54B-KM (3W-TRX) TM Video Overlay	BM	155	1310 FP	2 to -4	CNT, 2R	622	1490	-29	-5	0 to 70	2X5	SFF
NU-33B55B-KB	BM	155	1310 FP	2 to -4	CNT, 3R	622	1550	-29	-5	0 to 70	2X6	SFF
NU-33B54B-KB (3W-TRX) TM Video Overlay	BM	155	1310 FP	2 to -4	CNT, 2R	622	1490	-29	-5	0 to 70	2X6	SFF

622 MBPS DOWNSTREAM / 622 MBPS UPSTREAM (ITU-T G983.1)

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-55B53B-KM	CNT	622	1550 DFB	4 to -2	BM, 2R	622	1310	-27	-6	0 to 70	2X5	SFF
LT-54B53B-KM	CNT	622	1490 DFB	4 to -2	BM, 2R	622	1310	-27	-6	0 to 70	2X5	SFF
LT-55B53B-KC	CNT	622	1550 DFB	4 to -2	BM, 2R	622	1310	-27	-6	0 to 70	2X6	SFF
LT-54B53B-KC	CNT	622	1490 DFB	4 to -2	BM, 2R	622	1310	-27	-6	0 to 70	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-53B55B-KB	BM	622	1310 FP	2 to -4	CNT, 2R	622	1550	-28	-4	0 to 70	2X6	SFF
NU-53B54B-KB (3W-TRX)™ Video Overlay	BM	622	1310 FP	2 to -4	CNT, 2R	622	1490	-28	-4	0 to 70	2X6	SFF
NU-53B55B-KM	BM	622	1310 FP	2 to -4	CNT, 2R	622	1550	-28	-4	0 to 70	2X5	SFF
NU-53B54B-KM (3W-TRX)™ Video Overlay	BM	622	1310 FP	2 to -4	CNT, 2R	622	1490	-28	-4	0 to 70	2X5	SFF

Note: 1. LT-XXXXXXX-K has no TX alert pin. LT-XXXXXXX-KA has a TX alert pin.

2. XX-XXXXXXX-KX, K=R, SC receptacle, K=P, SC/PC pigtail with fiber length 50 cm.

3. BM: Burst Mode; CNT: Continuous Mode; SFF: Small Form Factor Package; FA, FB, F: FSAN standard package.

4. Zenko Technologies, Inc. has the right to change these specifications without notice.

5. (*): For the extended temperature transceiver, please contact support@zenkotech.com.

6. Zenko Technologies sells BM CDR to buyers of OLT modules.

(a): When surrounding temperature exceeds 60° C, air flow at rate higher than 100 LFPM is strongly recommended.

GPON SERIES (ITU-T G984.2)

1.25 GBPS DOWNSTREAM / 155 MBPS UPSTREAM

OLT MODULE

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74B33B-KC	CNT	1.25	1490 DFB	6 to 1	BM, 2R	155	1310	-30	-8	-40 to 80	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-33B75B-KB	BM	155	1310 FP	2 to -4	CNT, 2R	1.25	1550 /1490	-25	-4	-30 to 80	2X6	SFF
NU-33B74B-KB (3W-TRX) TM Video Overlay	BM	155	1310 FP	2 to -4	CNT, 2R	1.25	1490	-25	-4	-30 to 80	2X6	SFF
NU-33B74B-KBH (3W-TRX) TM Video Overlay.	BM	155	1310 FP	2 to -4	CNT, 2R	1.25	1490	-27	-4	-30 to 80	2X6	SFF
High Sensitivity RX DNU-33B74B-KBH (3W-TRX) TM Video Overlay. High Sensitivity RX	BM	155	1310 DFB	2 to -4	CNT, 2R	1.25	1490	-27	-4	-30 to 80	2X6	SFF

1.25 GBPS DOWNSTREAM / 622 MBPS UPSTREAM

OLT MODULE

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Mb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74B53B-KC	CNT	1.25	1490 DFB	6 to 1	BM, 2R	622	1310	-27	-6	-40 to 80	2X6	SFF
LT-74B53B-KCH	CNT	1.25	1490 DFB	6 to 2	BM, 2R	622	1310	-29	-8	-40 to 80	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Mb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-53B75B-KB	BM	622	1310 FP	4 to -1	CNT, 2R	1.25	1550 /1490	-25	-4	-30 to 80	2X6	SFF
NU-53B74B-KB (3W-TRX) TM Video Overlay	BM	622	1310 FP	4 to -1	CNT, 2R	1.25	1490	-25	-4	-30 to 80	2X6	SFF
NU-53B74B-KBH (3W-TRX) TM Video Overlay	BM	622	1310 FP	4 to -1	CNT, 2R	1.25	1490	-27	-6	-30 to 80	2X6	SFF
NU-53B74B-K2x5 (3W-TRX) TM Video Overlay	BM	622	1310 FP	4 to -1	CNT, 2R	1.25	1490	-25	-4	-30 to 80	2X5	SFF
NU-53B74B-KH2x5 (3W-TRX) TM Video Overlay	BM	622	1310 FP	4 to -1	CNT, 2R	1.25	1490	-27	-6	-30 to 80	2X5	SFF

**1.25 GBPS DOWNSTREAM / 1.25 GBPS UPSTREAM
OLT MODULE**

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74B73B-KC, PIN*	CNT	1.25	1490 DFB	6 to 1	BM, 2R	1.25	1310	-26	-7	0 to 80	2X6	SFF
LT-74B73B-KCH, APD*	CNT	1.25	1490 DFB	6 to 1	BM, 2R	1.25	1310	-28.5	-10	0 to 80	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C) Note (b)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-73B75B-KB (10km)	BM	1.25	1310 FP	3 to -2	CNT, 2R	1.25	1550 /1490	-25	-4	-30 to 80	2X6	SFF
NU-73B74B-KB (10km) (3W-TRX) TM Video Overlay	BM	1.25	1310 FP	3 to -2	CNT, 2R	1.25	1490	-25	-4	-30 to 80	2X6	SFF
DNU-73B75B-KB (20km), DFB LD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	1.25	1550/1490	-25	-4	-30 to 80	2X6	SFF
DNU-73B74B-KB (20km) (3W-TRX)TM Video Overlay, DFB LD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	1.25	1490	-25	-4	-30 to 80	2X6	SFF
DNU-73B74B-KBH (20km) (3W-TRX)TM Video Overlay, DFB LD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	1.25	1490	-27	-4	-30 to 80	2X6	SFF
NU-73B74B-KM (10km) (3W-TRX) TM Video Overlay	BM	1.25	1310 FP	3 to -2	CNT, 2R	1.25	1490	-25	-4	-30 to 80	2X5	SFF
DNU-73B74B-KMH (>20km) (3W-TRX) TM Video Overlay, DFB LD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	1.25	1490	-27	-4	-30 to 80	2X5	SFF

**2.50 GBPS DOWNSTREAM / 1.25 GBPS UPSTREAM
OLT MODULE**

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-94B73B-KC, PIN*	CNT	2.50	1490 DFB	7 to 2	BM, 2R	1.25	1310	-26	-7	-40 to 80	2X6	SFF
LT-94B73B-KCH, APD*	CNT	2.5	1490 DFB	7 to 2	BM, 2R	1.25	1310	-28.5	-10	-40 to 80	2X6	SFF
LT-94B73B-SFP, APD*	CNT	2.5	1490 DFB	7 to 2	BM, 2R	1.25	1310	-28.5	-10	-40 to 80	SFP	SFP

ONU MODULE

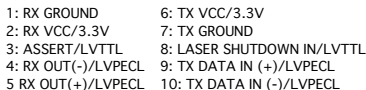
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	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
NU-73B94B-KB (10km) (3W-TRX) TM Video Overlay	BM	1.25	1310 FP	3 to -2	CNT, 2R	2.50	1490	-22	-1	-30 to 80	2X6	SFF
DNU-73B94B-KB (20km) (3W-TRX) TM Video Overlay, DFB LD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	2.50	1490	-22	-1	-30 to 80	2X6	SFF
DNU-73B94B-KBH (20km) (3W-TRX) TM Video Overlay, DFB LD/APD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	2.50	1490	-29	-8	-30 to 80	2X6	SFF
NU-73B94B-KM (10km) (3W-TRX) TM Video Overlay	BM	1.25	1310 FP	3 to -2	CNT, 2R	2.50	1490	-22	-1	-30 to 80	2X5	SFF
DNU-73B94B-KMH (>20km) (3W-TRX) TM Video Overlay, DFB LD/APD	BM	1.25	1310 DFB	3 to -2	CNT, 2R	2.50	1490	-29	-8	-30 to 80	2X5	SFF

(Top View)

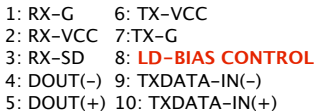
2X5 SFF K (OLT)



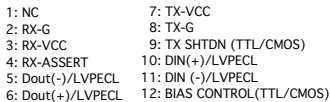
2X5 SFF K (ONU)



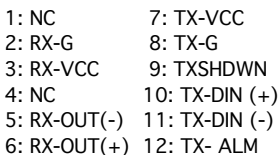
2x5 SFF KM (ONU)...



2X6 SFF KB (ONU)



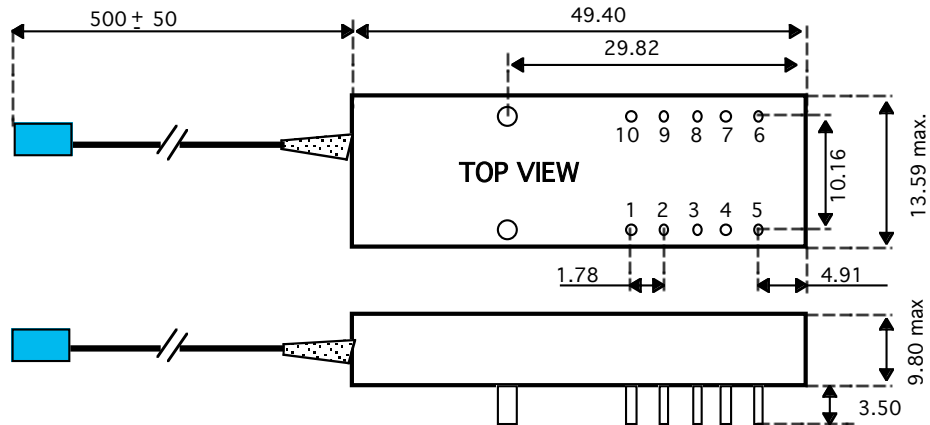
2X6 SFF KC (OLT)



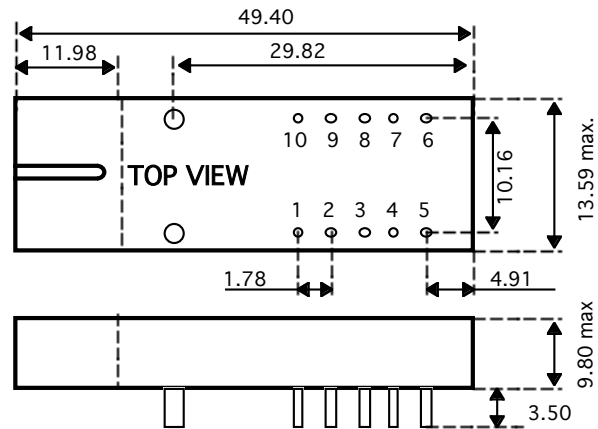
MODULE PACKAGE DIMENSIONS

in mm
(2x5 SFF Type-KM)

Type-P



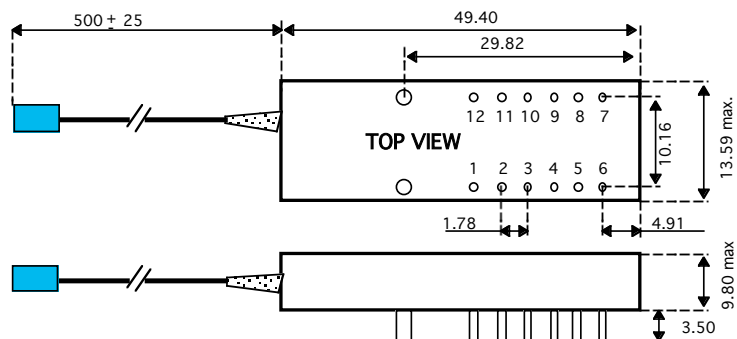
Type-R



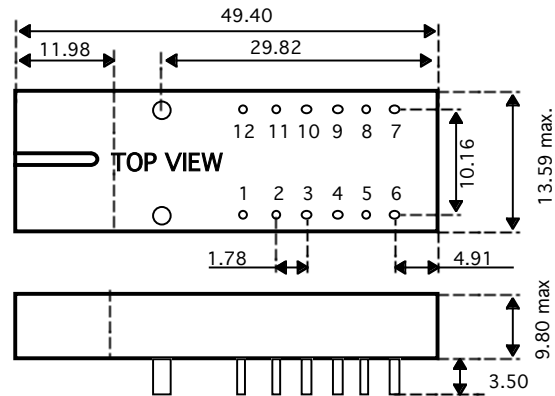
THE DIAMETERS OF PINS (1~10) ARE 0.5 MM AND THE DIAMETERS OF THE TWO SUPPORT PINS ARE 1MM.

(2x6 SFF Type-KB & KC)

Type-P

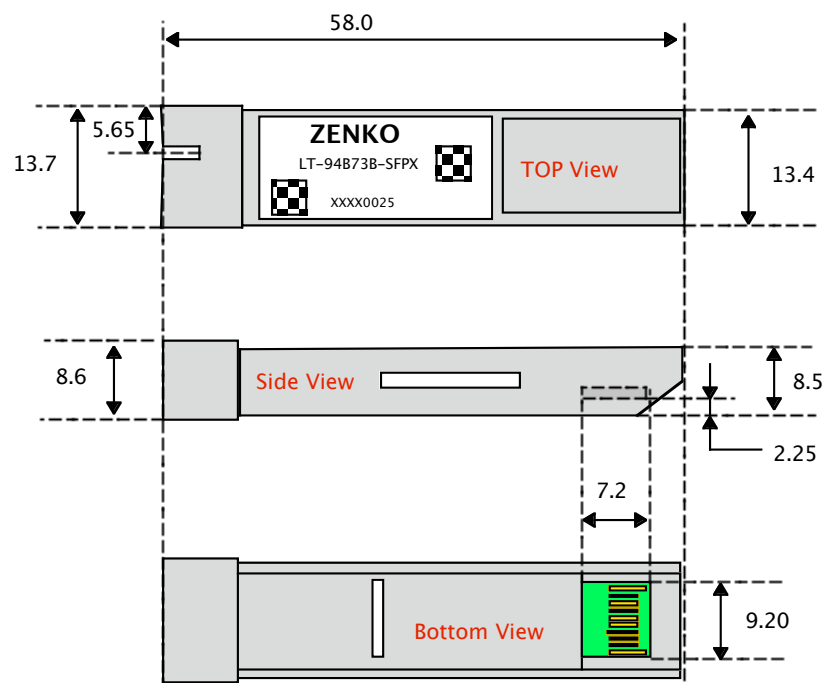


TYPE-R



The diameters of pins (1~12) are 0.5 mm and the diameters of the two support pins are 1mm.

SFP TYPE



Unit in mm