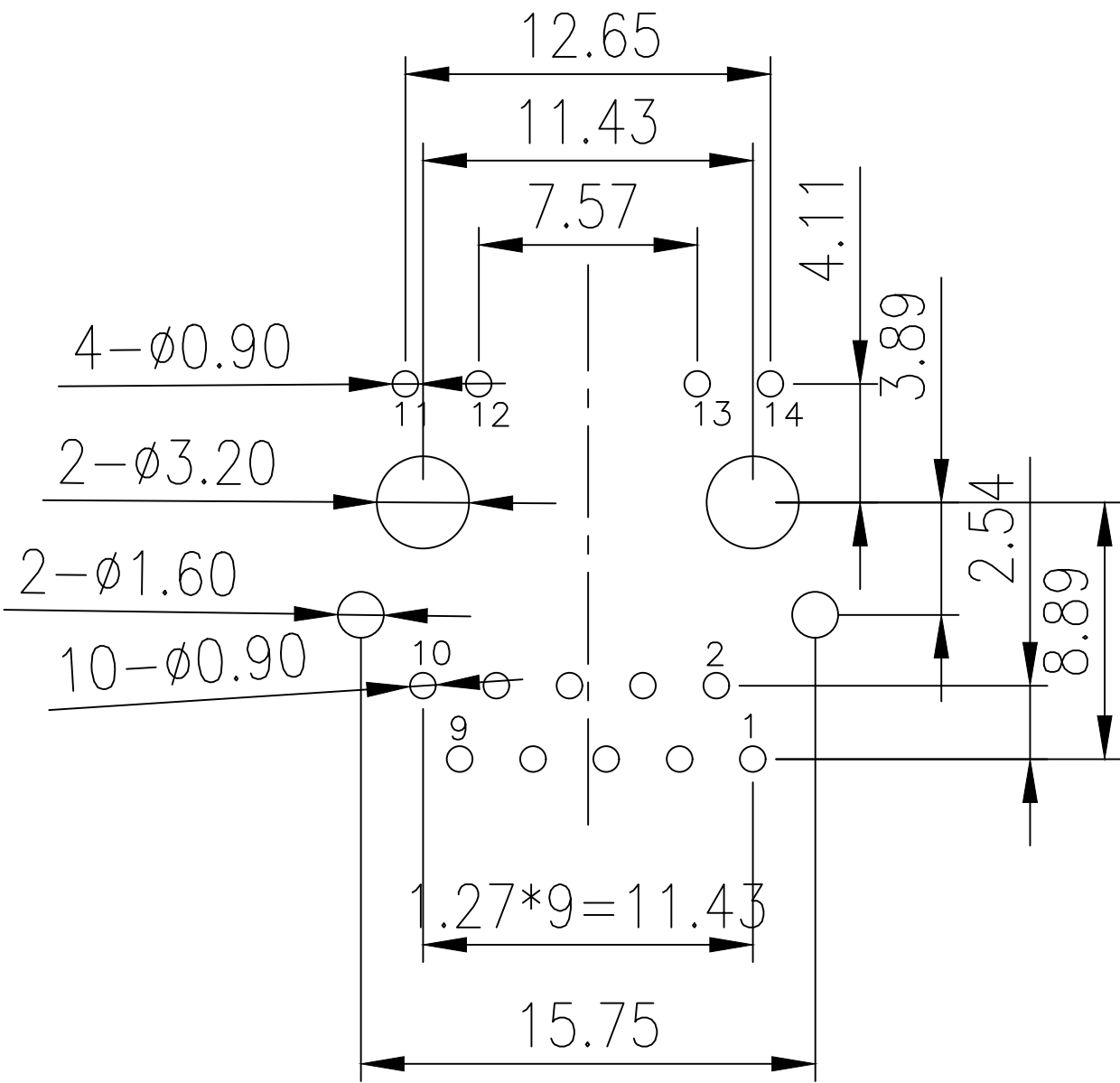
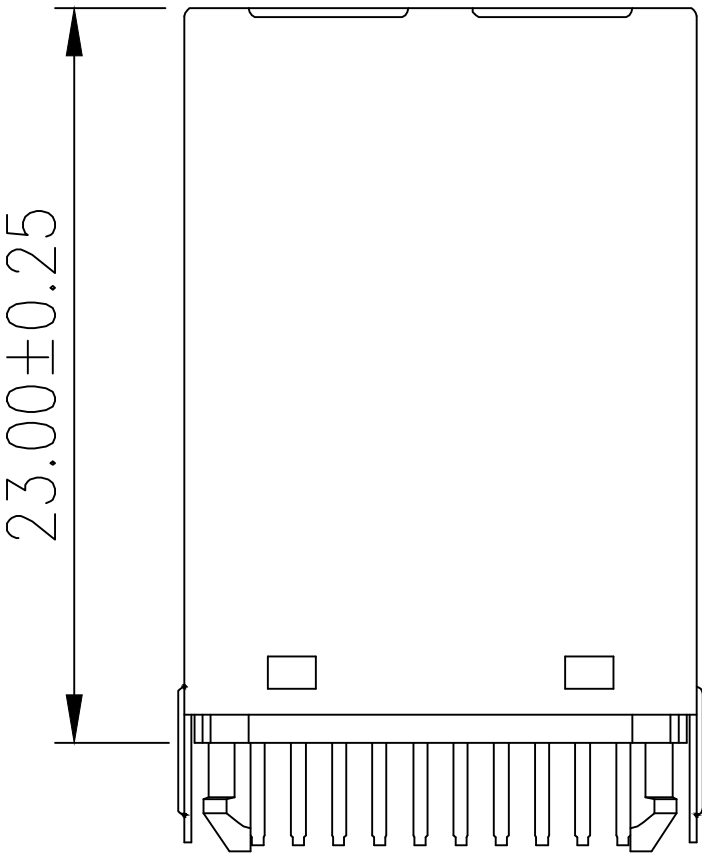
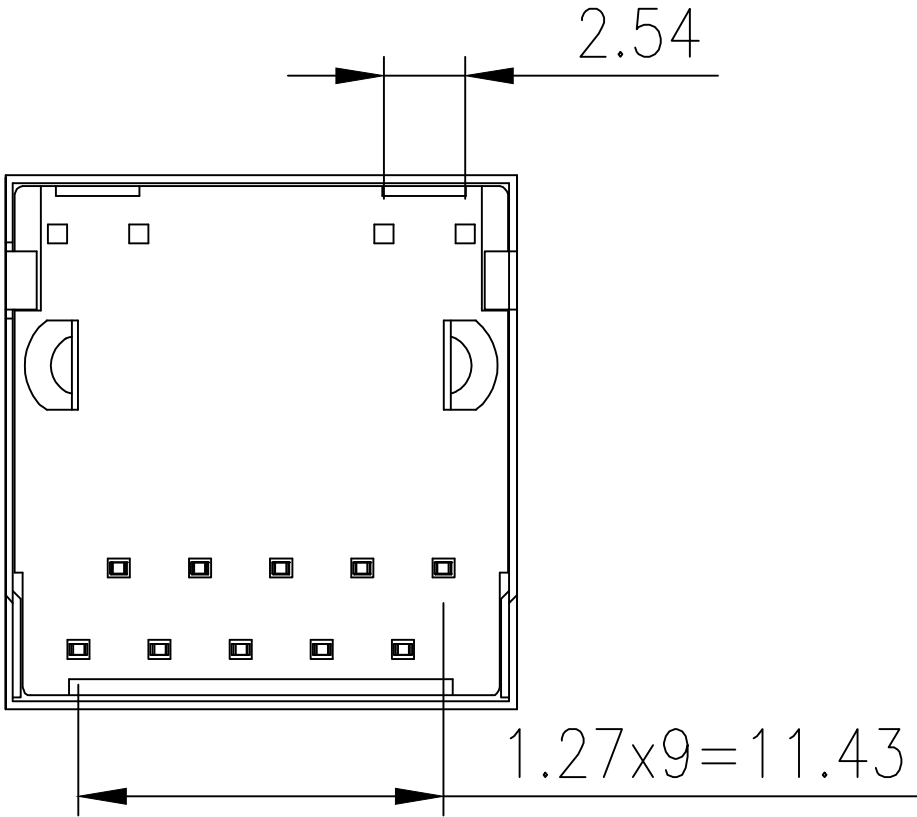
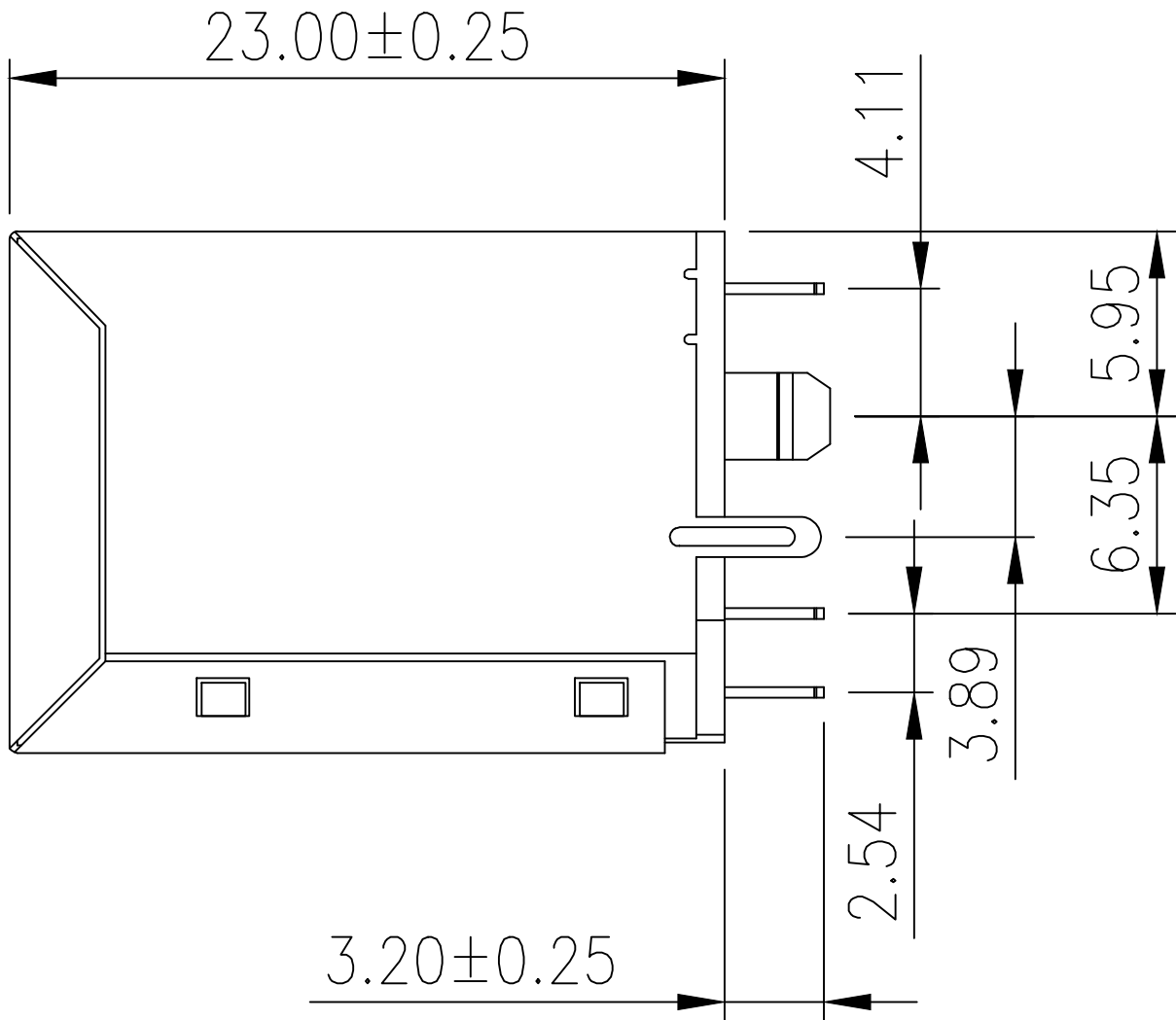
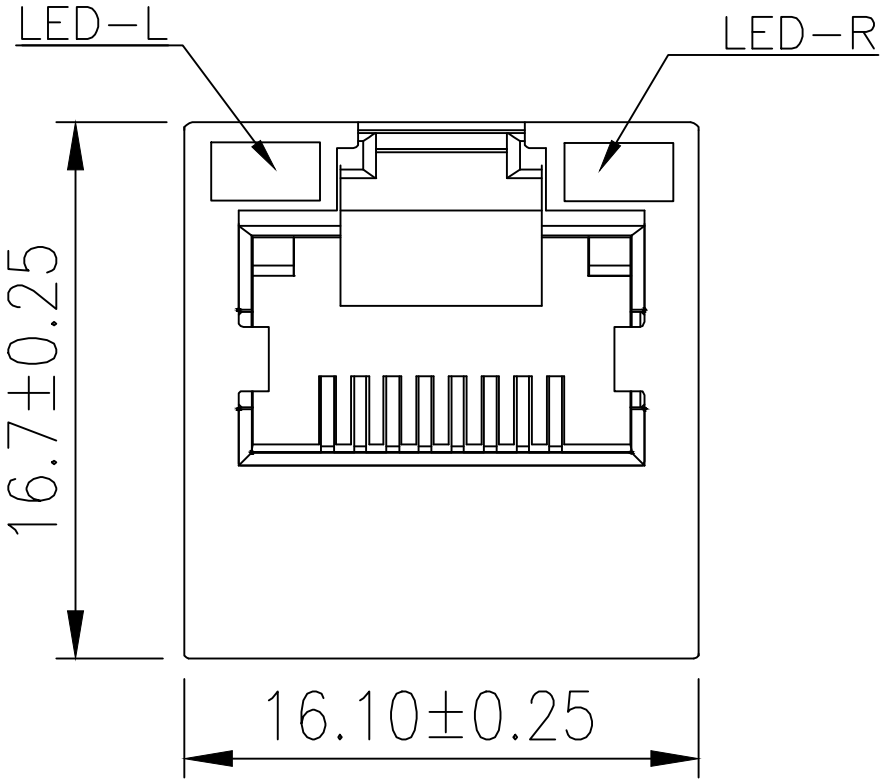


RoHS Compliant

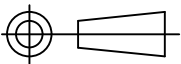
REV	MODIFICATION	DATE	DRAW	APPROVE

Mechanical:



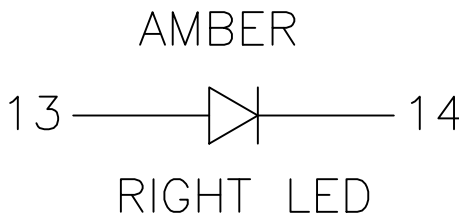
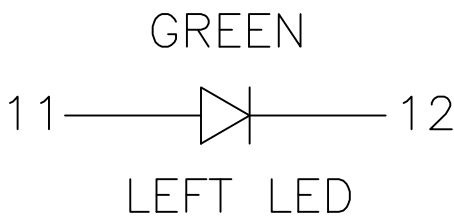
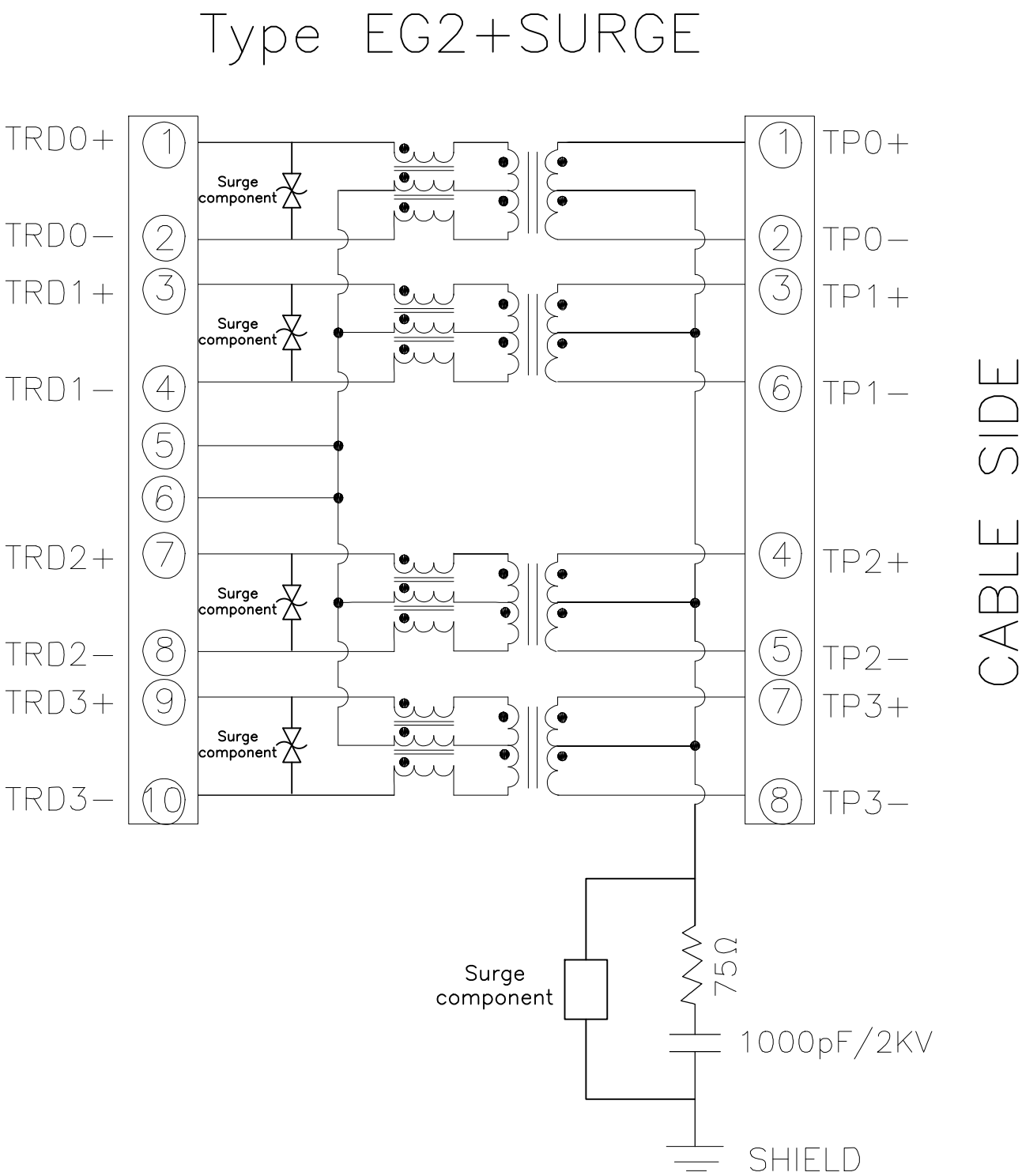
PCB Layout

Material:
1.1 Housing Material:Thermoplastic (UL94V-0),BLACK
1.2 Contact Material:PoshorBronze;t=0.35mm
A.Contact area :Gold over nickel
B.Contacr Plating:15u”
C.Solder Area:Tin Over Nickel
1.3 shield Material Brass c2680H t=0.2mm Nickel over Brass

QC :Inspection Item	DIMENSION IN mm [Inch]		ELLAX CORPORATION			
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE RJ45 180° 1x1 2.5G With Surge			
	.X± 0.38	X.°± 2.0°	DRAWING NUMBER 69SEG211R82			
	.XX± 0.20	.X°± 1.0°				
	.XXX± 0.10					
APPROVE WP 2019,07,25		CHECK Oliver 2019,07,25		DRAW Andy 2019,07,25		PROJ. 
				SHEET 1 OF 2		SCALE 3:1
				SIZE A3		REV A

RoHS Compliant

Schematic:



Code	RJ45 Plating				LED Code			
	Contact area	Solder tail	Under plating		Left LED	Right LED		
F	3u" gold	100u" Tin Min.	40u" Nickel Min.	A	Green	—	Yellow	—
1	6u" gold			B	Yellow	—	Green	—
2	15u" gold			C	Green	—	Green	—
3	30u" gold			D	—	Green	—	Yellow
4	50u" gold			E	—	Yellow	—	Green
				F	Yellow	—	Orange	Green
				8	Green	—	Amber	—
				0	—	—	—	—

Part Number:

① Series No.

② Transformer Type.

③ Shield Type.

④ R=Standard operation temp.(0°C to +70°C)
H=Industrial operation temp.(−40°C to +85°C)

⑤ LED Code:See left table.

⑥ RJ45 Plating

REV	MODIFICATION	DATE	DRAW	APPROVE

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	0°C TO +70°C	
URNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS (SDD21&SDD12)	1–50MHz	50–125MHz
	−0.5 dB MAX	−1.0 dB MAX
PHY–SIDE RETURN LOSS (SDD11–Zref=100 OHMS ± 1%)	1–40MHz	40–200MHz
	−20 dB MIN	−20+15*LOG ₁₀ (f/40) dB MIN
LINE–SIDE RETURN LOSS (SDD22–Zref=100 OHMS ± 1%)	1–40MHz	40–200MHz
	−20 dB MIN	−20+15*LOG ₁₀ (f/40) dB MIN
INDUCTANCE (OCL)	120 uH MIN @ 100KHz, 100mV	
CROSSTALK, ADJACENT CHANNELS (SDD21–ADJ.)	1–125MHz	
	−30 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30–200MHz	
	−30 dB MIN	
COMM. TO DIFF REJECTION RATIO (SDC12)	10–125MHz	
	−45+f/35 dB MIN	
INPUT–OUTPUT ISOLATION	2250 VDC FOR 60 SECONDS	

NOTE: f IS FREQUENCY IN MHZ.

ESD protection:
IEC 61000–4–2(ESD)15KV(Air),8KV(Contact)

Surge protection:
IEC 61000–4–5(Lightning)24A(8/20 uS)

Part Number:

69SEG211R82

Plating:
2:Gold 15u"

With LED

Standard operation temp.

Pins type(3.89)

Without EMI fingers.

Transformer Type.

Series No.

QC : Inspection Item	DIMENSION IN mm [Inch]		ELLAX CORPORATION		
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE		
	.X± 0.38	X.°± 2.0°	RJ45 180° 1x1 2.5G With Surge		
	.XX± 0.20	.X°± 1.0°	DRAWING NUMBER		
	.XXX± 0.10		69SEG211R82		
APPROVE WP 2019,07,25	CHECK Oliver 2019,07,25	DRAW Andy 2019,07,25	PROJ. ⊗ SCALE 3:1	SHEET 2 OF 2	
				SIZE A3	REV A