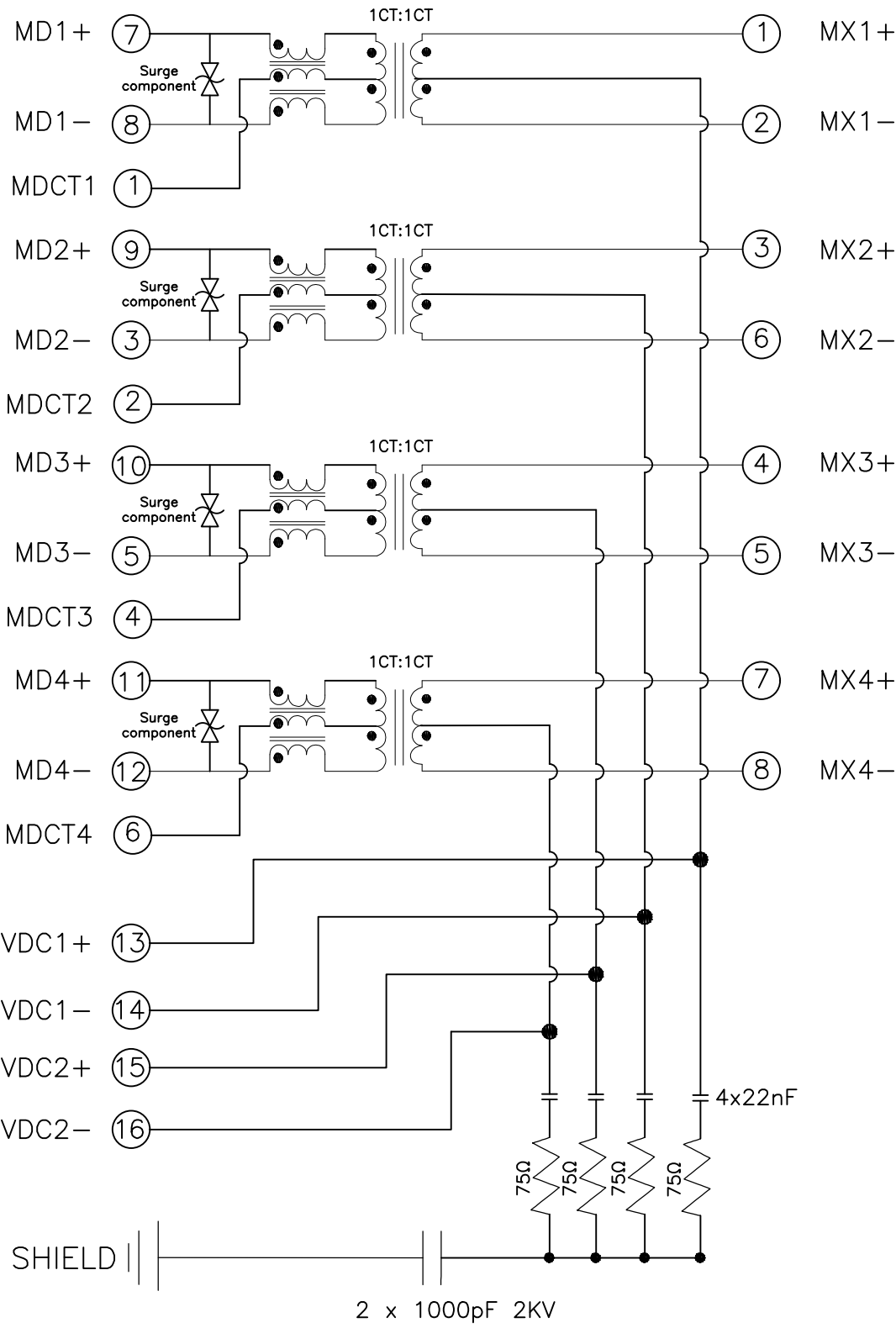


RoHS Compliant

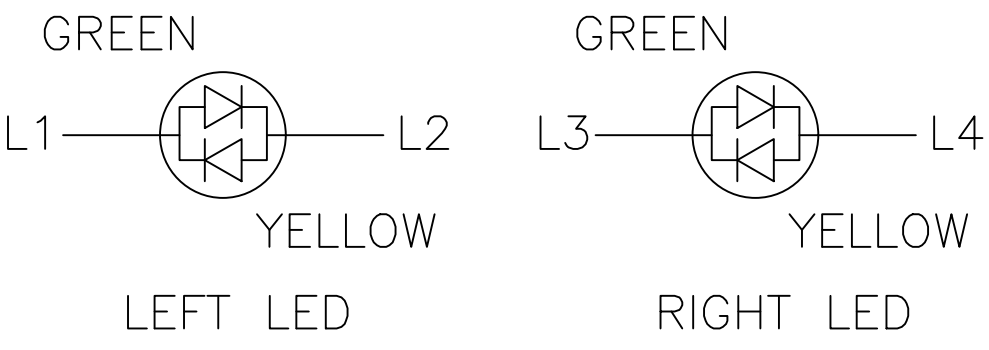
Schematic:

Type GD5

PCB SIDE



CABLE SIDE



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
				J	Green	Yellow	Green	Yellow
				0	—	—	—	—

Part Number:

XXX XXX XX X X X
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 Specifications @25°C								
Turns Ratio (±2%)		OCL (uH Min.) @100 KHz/0.1V with 8mA DC Bias	Cross talk (dB Min.)				Hi-POT 1.0 mA (V)	
			0.5–10 MHz	30 MHz	50 MHz	100 MHz	WITHOUT Resistance	WITH Resistance
1CT:1CT	1CT:1CT	350	−50	−40	−35	−30	1500 AC	2250 DC

Continue							
Insertion Loss (dB Max.)		Return Loss (dB Min.) @ Load 100 OHM					CMR (dB Min.)
1–100 MHz	100–125 MHz (10/100/1000)	1–30 MHz	30–50 MHz	60 MHz	60–80 MHz	80–100 MHz (10/100/1000)	1–100 MHz
−1.0	−1.2	−18	−16	−14	−12	−10	−30

SURGE Line to Line 2KV, Line to GND 6KV
Compliant with IEEE 802.3at for 1000Base-T applications

Part Number:
431GD5J7RJ1

Plating:
1:Gold 6u"
LED CODE
Industrial operation temp.
Locate: front of tab 3.18
With EMI fingers.
Transformer Type.
Series No.

Inspection Item	DIMENSION IN mm [Inch]		ELLAX CORPORATION	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE	
	.X± 0.38	X.°± 2.0°	RJ45 1X1 10/100/1000 W/LED POE SURGE	
	.XX± 0.20	.X°± 1.0°	DRAWING NUMBER	
	.XXX± 0.10		431GD5J7RJ1	
APPROVE	CHECK	DRAW	PROJ.	SHEET X OF Y
Corey 2019,11,12	Alen 2019,11,12	KONGLEI 2019,11,12	⊗ SCALE RATIO	REV A