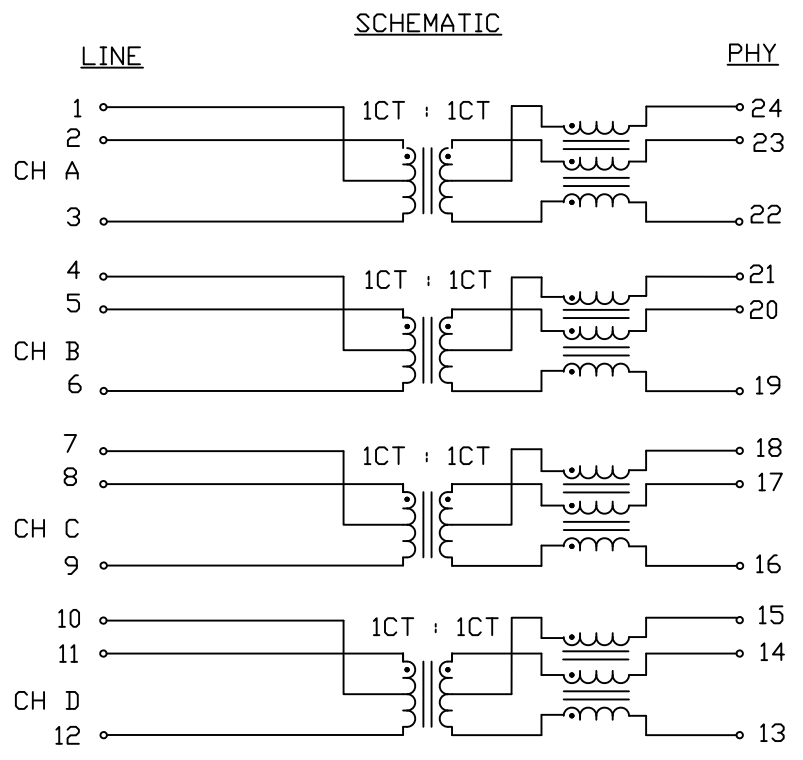


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ELECTRICAL SPECIFICATION @25°C



TURNS RATIO
 (2-1-3) : (23-24-22)
 (5-4-6) : (20-21-19)
 (8-7-9) : (17-18-16)
 (11-10-12) : (14-15-13)

1CT : 1CT
 1CT : 1CT
 1CT : 1CT
 1CT : 1CT

POLARITY PER DOT CONVENTION

□CL
 @100kHz, 100mV, 19mA DC BIAS 120uH MIN
 @100kHz, 100mV 180uH MIN

HIPOT LEAKAGE CURRENT LESS THAN 1mA AT 2250VDC

INSERTION LOSS

| | | | | |
|-----------|-----|-------|-----|-----|
| FREQ(MHz) | 1 | 2-300 | 400 | 500 |
| MAX (dB) | 0.3 | 1.0 | 1.5 | 2.0 |

RETURN LOSS
 (<100 OHM LINESIDE LOAD)

| | | | | | |
|-----------|----|-------|-----|-----|-----|
| FREQ(MHz) | 1 | 2-100 | 200 | 500 | 600 |
| MIN (dB) | 18 | 20 | 15 | 12 | 9 |

COMM. TO DIFF. MODE REJECTION

| | | | | | | |
|-----------|----|-----|-----|-----|-----|-----|
| FREQ(MHz) | 50 | 100 | 200 | 300 | 400 | 500 |
| MAX (dB) | 48 | 42 | 36 | 33 | 30 | 28 |

DIFF. TO COMM. MODE REJECTION

| | | | | | | |
|-----------|----|-----|-----|-----|-----|-----|
| FREQ(MHz) | 50 | 100 | 200 | 300 | 400 | 500 |
| MAX (dB) | 30 | 27 | 24 | 22 | 21 | 20 |

BALANCED DC LINE CURRENT: 600mA NOMINAL CONTINUOUS
 720mA MAXIMUM CONTINUOUS
 1.2A MAXIMUM FOR 200ms

DESIGNED FOR EXTENDED TEMPERATURE 10G 60W POE APPLICATIONS
 OPERATING TEMPERATURE -40°C TO 85°C.

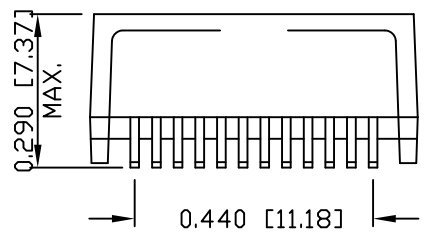
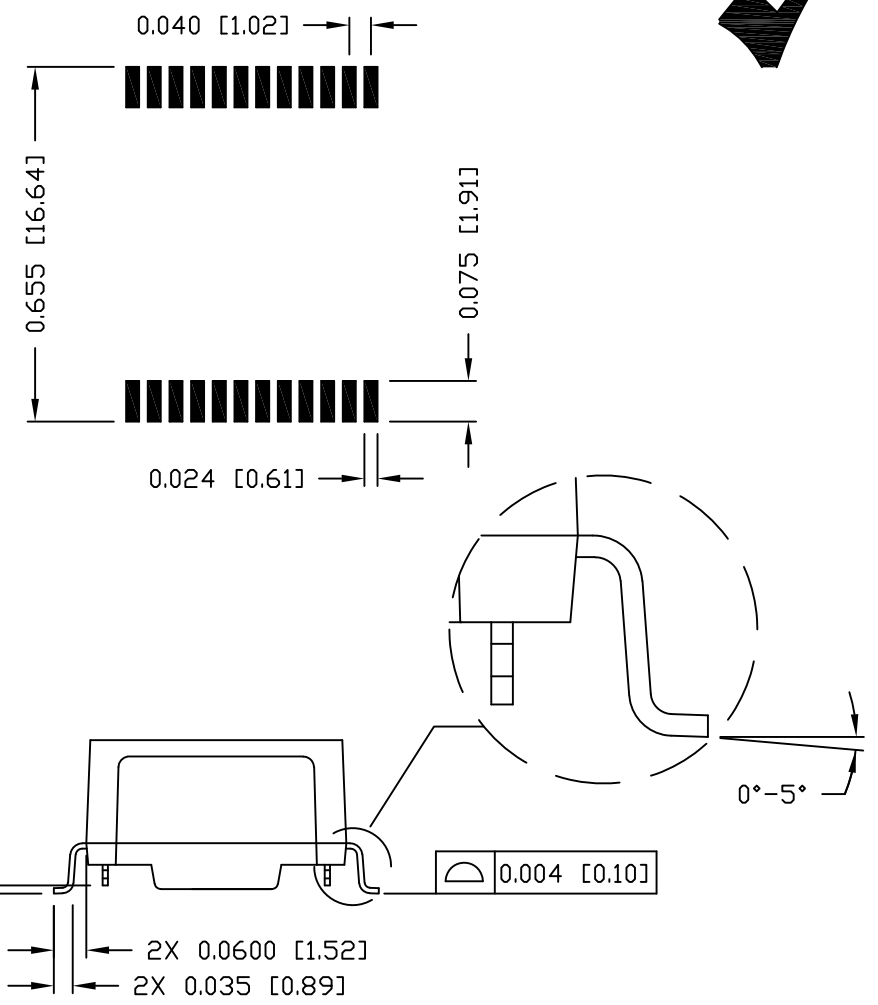
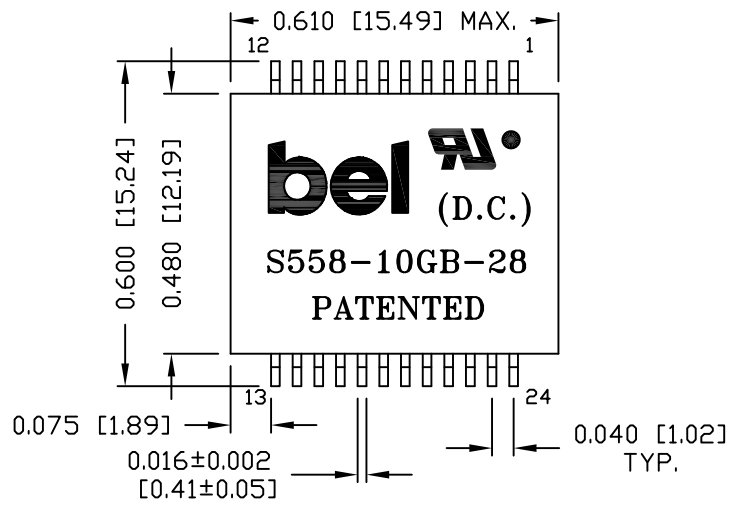
| | | | | | | |
|----------------------------------|---------------------------|--|---|--------------------------------------|--|---------------------------------|
| ORIGINATED BY Brian B. | DATE 2024-09-27 | TITLE ELECTRICAL SPECIFICATION | PART NO. / DRAWING NO. S558-10GB-28 | STANDARD DIM. TOL. IN INCH | [] METRIC DIM. AS REF. | REV. : A PAGE : 2 |
| DRAWN BY Brian B. | DATE 2024-09-27 | | FILE NAME S55810GB28.DWG | .X .XX .XXX | UNIT : INCH [mm] SCALE : N/A SIZE : A4 | |
| | | | | | | |

Additional Resources: Product Page 3D Model PCB Footprint Technical Documentation

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SUGGESTED PCB PAD LAYOUT



- NOTES:
1. STANDARD MARKING REFER TO DOC. HAND-WORK-04.
 2. PACKAGE CODE: "QABS001".

| | | | | | | | | |
|---------------|--|------------|--------------------------|------------------------|---------------|-------------------------|-------------------------------|----------|
| ORIGINATED BY | | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. | [] METRIC DIM. AS REF. | REV. : A | PAGE : 3 |
| Brian B. | | 2024-09-27 | MECHANICAL SPECIFICATION | S558-10GB-28 | TOL. IN INCH | UNIT : INCH [mm] | POWER PROTECT CONNECT | |
| DRAWN BY | | DATE | | FILE NAME | .X | SCALE : N/A | | |
| Brian B. | | 2024-09-27 | | S55810GB28.DWG | .XX ±0.01 | SIZE : A4 | | |
| | | | | | .XXX ±0.005 | | | |

DC002(2)120214

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