

# 1000 Base-T Module

## EPG4002S



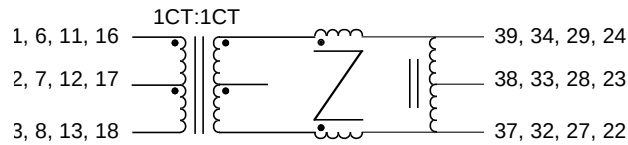
- Guaranteed to operate with 100 Base-X •
- Complies with or exceeds IEEE 802.3ab 1000 Base-T •
- 1500 Vrms Isolation •

### Electrical Parameters @ 25° C

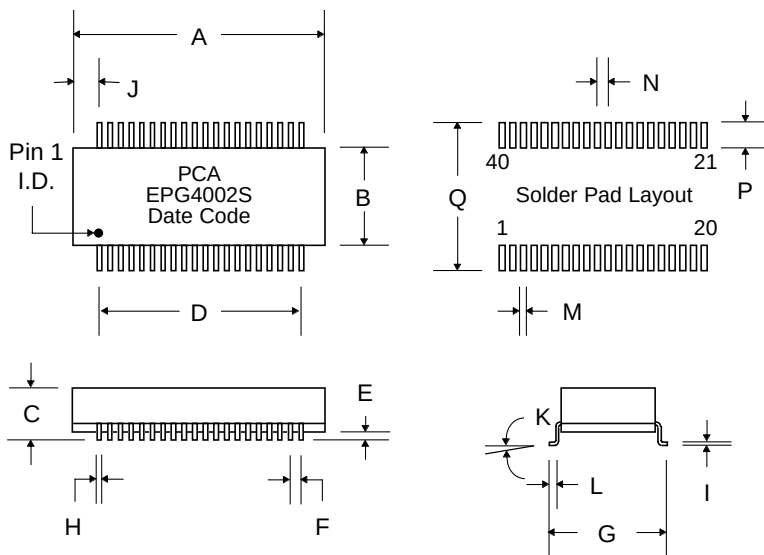
| OCL<br>( $\mu$ H Min.)              | Insertion Loss<br>(dB Max.) |             |               |                | Return Loss<br>(dB Min.) |           |           |            | CMRR<br>(dB Min.) | Common to Differential<br>(dB Min.) |           |           |            | Cross talk<br>(dB Min.) |           |            |
|-------------------------------------|-----------------------------|-------------|---------------|----------------|--------------------------|-----------|-----------|------------|-------------------|-------------------------------------|-----------|-----------|------------|-------------------------|-----------|------------|
| @ 100 KHz, 0.1 Vrms<br>8 mA DC bias | 0.1-1<br>MHz                | 1-65<br>MHz | 65-100<br>MHz | 100-125<br>MHz | 1-40<br>MHz              | 60<br>MHz | 80<br>MHz | 100<br>MHz | 1-100<br>MHz      | 1<br>MHz                            | 30<br>MHz | 50<br>MHz | 100<br>MHz | 1-40<br>MHz             | 60<br>MHz | 100<br>MHz |
| 350 (Media Side)                    | -1.1                        | -0.5        | -0.8          | -1.2           | -18                      | -15       | -12       | -10        | -30               | -68                                 | -40       | -35       | -30        | -40                     | -35       | -30        |

Rise Time : 1.75 nS Max. • Impedance : 100  $\Omega$

### Schematic



### Package



### Dimensions

| Dim. | (Inches) |       |       | (millimeters) |       |       |
|------|----------|-------|-------|---------------|-------|-------|
|      | Min.     | Max.  | Nom.  | Min.          | Max.  | Nom.  |
| A    | 1.110    | 1.130 | 1.120 | 28.19         | 28.70 | 28.45 |
| B    | .470     | .490  | .480  | 11.94         | 12.45 | 12.19 |
| C    | .250     | .270  | .260  | 6.35          | 6.86  | 6.60  |
| D    | ---      | ---   | .950  | ---           | ---   | 24.13 |
| E    | .010     | .015  | .012  | .254          | .381  | .305  |
| F    | ---      | ---   | .050  | ---           | ---   | 1.27  |
| G    | .590     | .610  | .600  | 14.99         | 15.49 | 15.24 |
| H    | .016     | .022  | .019  | .406          | .559  | .483  |
| I    | .008     | .013  | .010  | .203          | .330  | .254  |
| (J)  | ---      | ---   | .085  | ---           | ---   | 2.16  |
| K    | 0°       | 8°    | 4°    | 0°            | 8°    | 4°    |
| L    | .025     | .045  | .035  | .635          | 1.14  | .889  |
| M    | ---      | ---   | .030  | ---           | ---   | .762  |
| N    | ---      | ---   | .050  | ---           | ---   | 1.27  |
| P    | ---      | ---   | .090  | ---           | ---   | 2.29  |
| Q    | ---      | ---   | .670  | ---           | ---   | 17.02 |