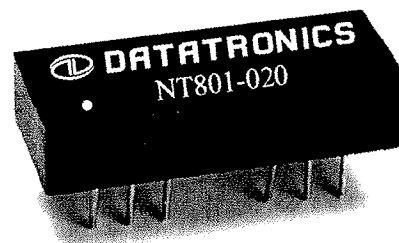


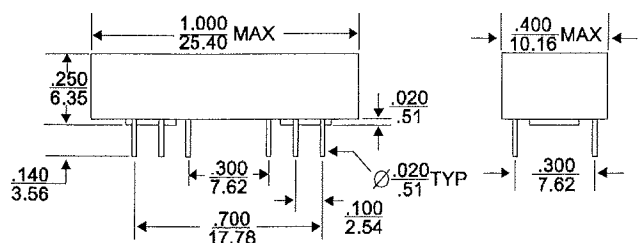
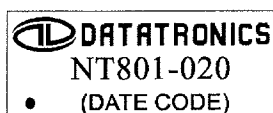
**NT801-020**
**10Base-T Filter Module**
**Features**

- Designed to meet IEEE 802.3 10Base-T Specification
- Designed for 10Base-T adapter and hub applications
- Low common mode noise and crosstalk
- 2000Vrms isolation
- Industrial standard DIL package
- Supports most 10Base-T transceiver and multiport repeater chips


**Electrical Specifications @25°C**

| Insertion loss<br>(dB Max) |     | Cut-Off Frequency<br>(MHz) |        | Attenuation<br>(dB Min) |    |       |    |       |    |       |    |
|----------------------------|-----|----------------------------|--------|-------------------------|----|-------|----|-------|----|-------|----|
| 1-10MHz                    |     | TX                         | RX     | 20MHz                   |    | 25MHz |    | 30MHz |    | 40MHz |    |
| TX                         | RX  |                            |        | TX                      | RX | TX    | RX | TX    | RX | TX    | RX |
| 1.0                        | 1.0 | 17 ± 1                     | 17 ± 1 | 7                       | 6  | 20    | 14 | 32    | 20 | 35    | 31 |

| Return Loss<br>(w/ 100Ω)<br>(dB Min) |    | Return Loss<br>(w/ 98±13Ω)<br>(dB Min) |    | Common Mode Rejection Ratio<br>(dB Min) |    |       |    |        |    | Crosstalk<br>(dB Min) | Isolation<br>(Vrms) |
|--------------------------------------|----|----------------------------------------|----|-----------------------------------------|----|-------|----|--------|----|-----------------------|---------------------|
| 5-10MHz                              |    | 5-10MHz                                |    | 10MHz                                   |    | 30MHz |    | 100MHz |    | 1-10MHz               | TX / RX             |
| TX                                   | RX | TX                                     | RX | TX                                      | RX | TX    | RX | TX     | RX | TX ⇌ RX               |                     |
| 18                                   | 18 | 15                                     | 15 | 40                                      | 35 | 35    | 25 | 30     | 15 | 35                    | 2000                |

**Mechanical Outline**


- Note: 1. All dimensions are specified in  $\frac{\text{Inches}}{\text{mm}}$
2. Unless other specified, all tolerance are  $\pm .010$   
 $\pm .254$

**Schematic**
