

**Specifications**

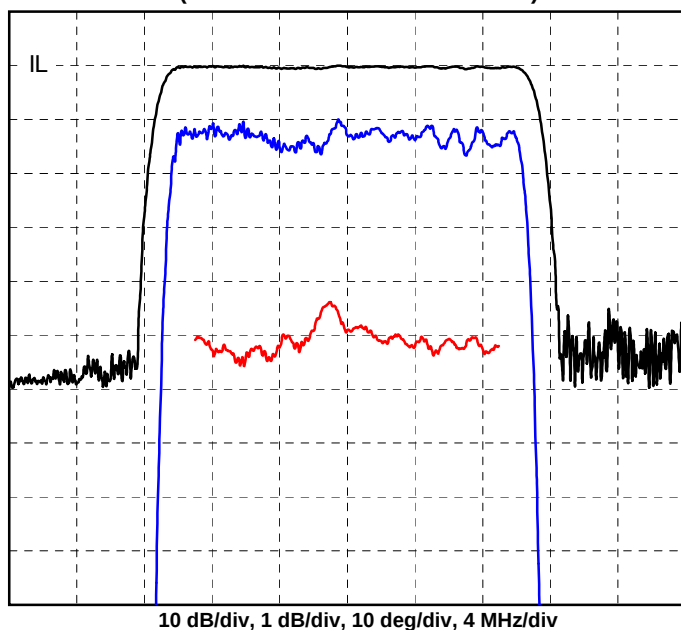
| Parameter                    | Unit     | Min  | Typical | Max  |
|------------------------------|----------|------|---------|------|
| Center Frequency (F0)        | MHz      |      | 37      |      |
| Bandwidth (B)                | MHz      |      | 20      |      |
| -3 dB Bandwidth (B3)         | MHz      | 21.4 | 21.6    |      |
| -40 db Bandwidth (B40)       | MHz      |      | 24.5    | 24.7 |
| Delay (T0)                   | μsec     | 3.66 | 3.679   | 3.7  |
| Insertion Loss (IL)          | dB       |      | 27.1    | 28   |
| Amplitude Ripple             | dB p-p   |      | 0.7     | 1    |
| Phase Ripple                 | deg p-p  |      | 8.4     | 16   |
| Rejection                    | dB       | 46   | 49      |      |
| Spurious for $ t-T0  > .9T0$ | dB       |      | -54     | -48  |
| Substrate Material           | 128YX-LN |      |         |      |

**Notes:**

1. Center Frequency (F0) and Bandwidth (B) are defined, not measured.
2. Insertion Loss is the minimum loss for  $|f-F0| < .5B$
3. Ripple spec applies to the  $|f-F0| < .4B$ , and is doubled for  $.4B < |f-F0| < .5B$
4. Rejection spec applies to  $(B40 \text{ Spec} - B/2) < |f-F0| < F0/2$
5. Specifications are at 22C only. Unit will operate undamaged from -54C to 125C with shifts  $dF0 = -x \cdot F0$ ,  $dT0 = x \cdot T0$ , where  $x = 75E-6 \cdot (\text{temperature} - 22C)$

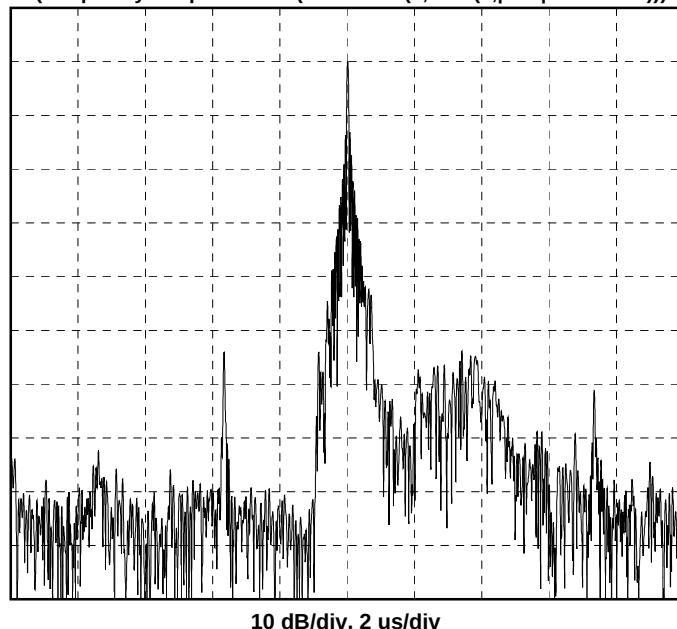
**Typical Performance**

**Frequency Response**  
(Best Fit Linear Phase Removed)

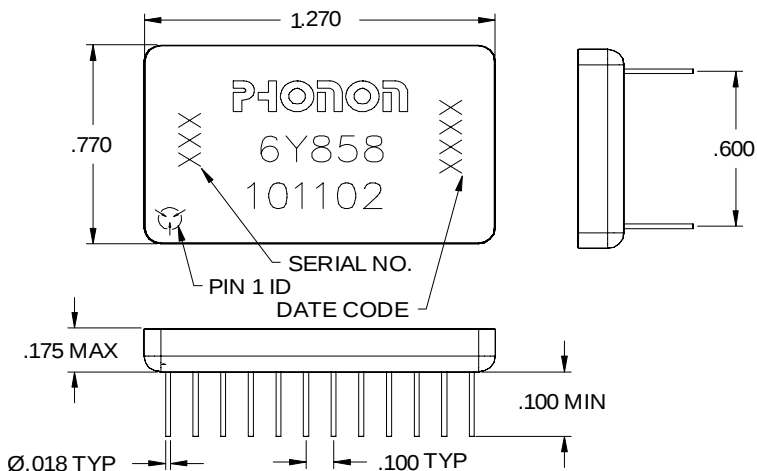


**Impulse Response**

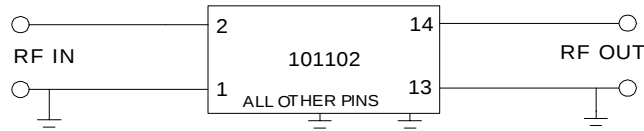
FFT(Frequency Response \* Cos(0.5\*PI\*MIN(1, MAX(0, |f-F0|\*2.0/20-1.0))))^2



**Package Outline**



**Matching**



Matched S-parameters available at [www.phonon.com](http://www.phonon.com)