

Specifications

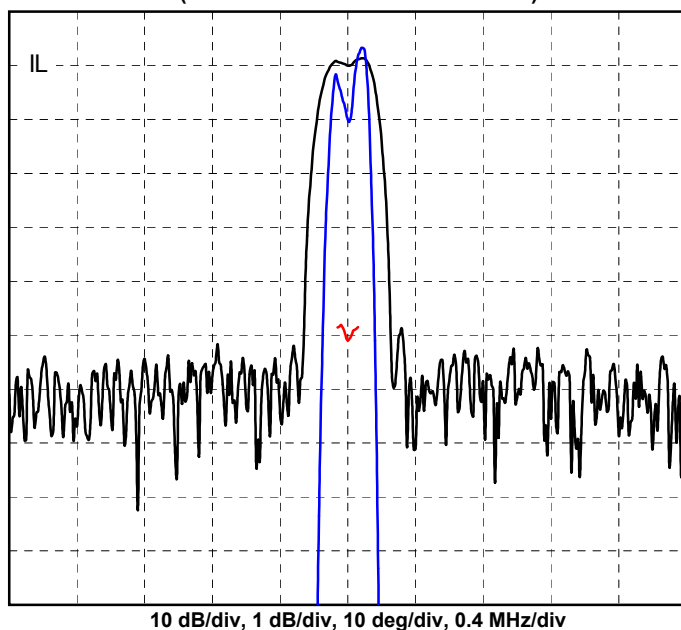
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		70	
Bandwidth (B)	MHz		0.15	
-3 dB Bandwidth (B3)	MHz	0.2	0.3	
-40 dB Bandwidth (B40)	MHz		0.5	0.6
Delay (T0)	μsec	7.96	8.002	8.04
Insertion Loss (IL)	dB		20.5	21
Amplitude Ripple	dB p-p		1	1.5
Phase Ripple	deg p-p		2.9	4
Rejection	dB	50	52	
Spurious for $ t-T0 > .9T0$	dB		-41	-40
Substrate Material	40YX-Q			

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 $x = 3E-8 \cdot (\text{temperature} - 22C)^2$

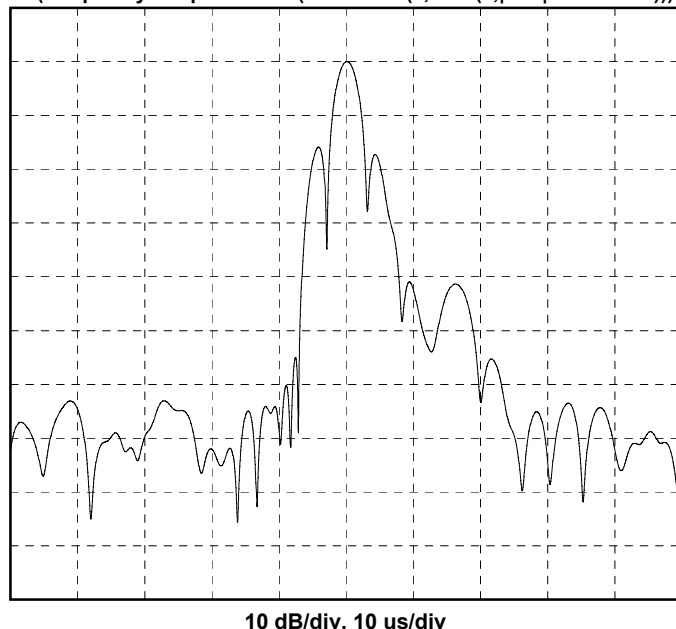
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)



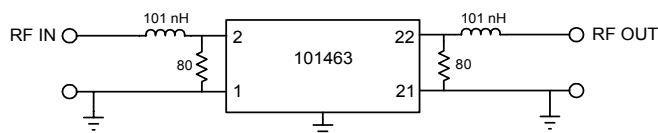
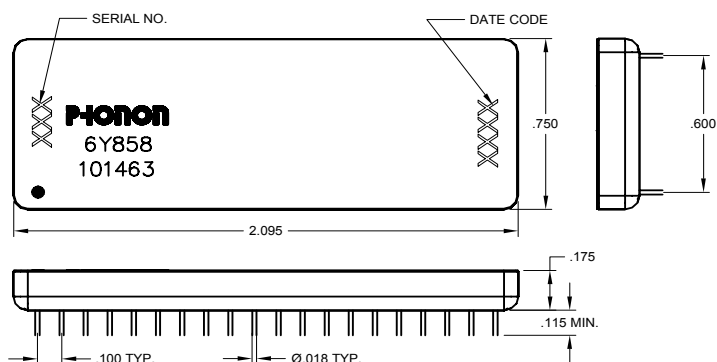
Impulse Response

FFT(Frequency Response * Cos(0.5*PI*MIN(1, MAX(0, |f-F0|*2.0/0.4-1.0))))^2



Package Outline

Matching



Matched S-parameters available at www.phonon.com