



## Blue Tops RF Modules > Dividers > Low Noise Regenerative Divider LNRD2

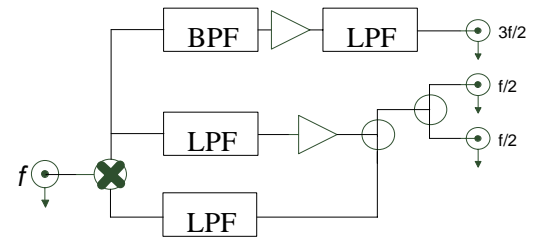
### Features:

- Ultra-low Phase Noise
- 2 (f/2) and 1 (3f/2)
- Integral Filters

### Applications:

- RF Systems Component
- Down Conversion
- System Integration

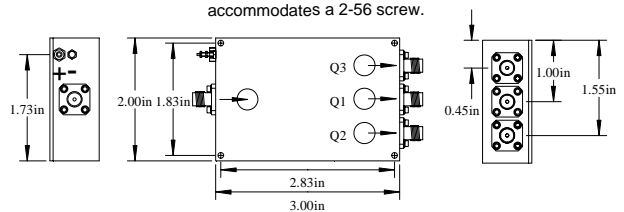
The LNRD2 is a regenerative frequency divide-by-two module with an optional 3/2 frequency output. Division is accomplished with low noise mixers and amplifiers yielding exceptional phase noise performance and high frequency operation. The module includes the high-level mixer, all the necessary filters, amplifiers and power splitters! The output noise floor is typically -175 dBc (-172 spec.) and the close-in noise is significantly lower than the best crystal sources making the LNRD2 a nearly ideal frequency divider. These dividers are designed for a fixed frequency between 10 and 2000 MHz at the input and higher frequency versions are available as custom designs. Custom connector sex allows for direct connection with other Blue Tops, saving the cost of a cable.



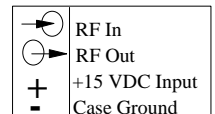
LNRD2 Block Diagram

Typical Specifications:	
Input Frequency (Fixed)	10 to 2000 MHz
Input Signal Level	+20 to +23 dBm
Output Power Levels	Up to +15 dBm
Phase Noise	
Noise Floor	-172 dBc/Hz
Harmonics	<-30 dBc
3f/2 Sub-Harmonics	<-40 dBc
Supply Voltage	+15 VDC
Current	100 mA
Dimensions	3 x 2 x 0.8"
Connectors	
Power	Feed-thru Capacitor
Ground	Turret Terminal
RF Input / Output	Female SMA Standard BNC, TNC Optional
<b>CUSTOM OPTIONS</b>	
<i>Please specify when ordering</i>	
<i>Your Custom Requirements</i>	

Bottom view: Each mounting hole has a helicoil insert that accommodates a 2-56 screw.



### Connections



### Ordering Information:

