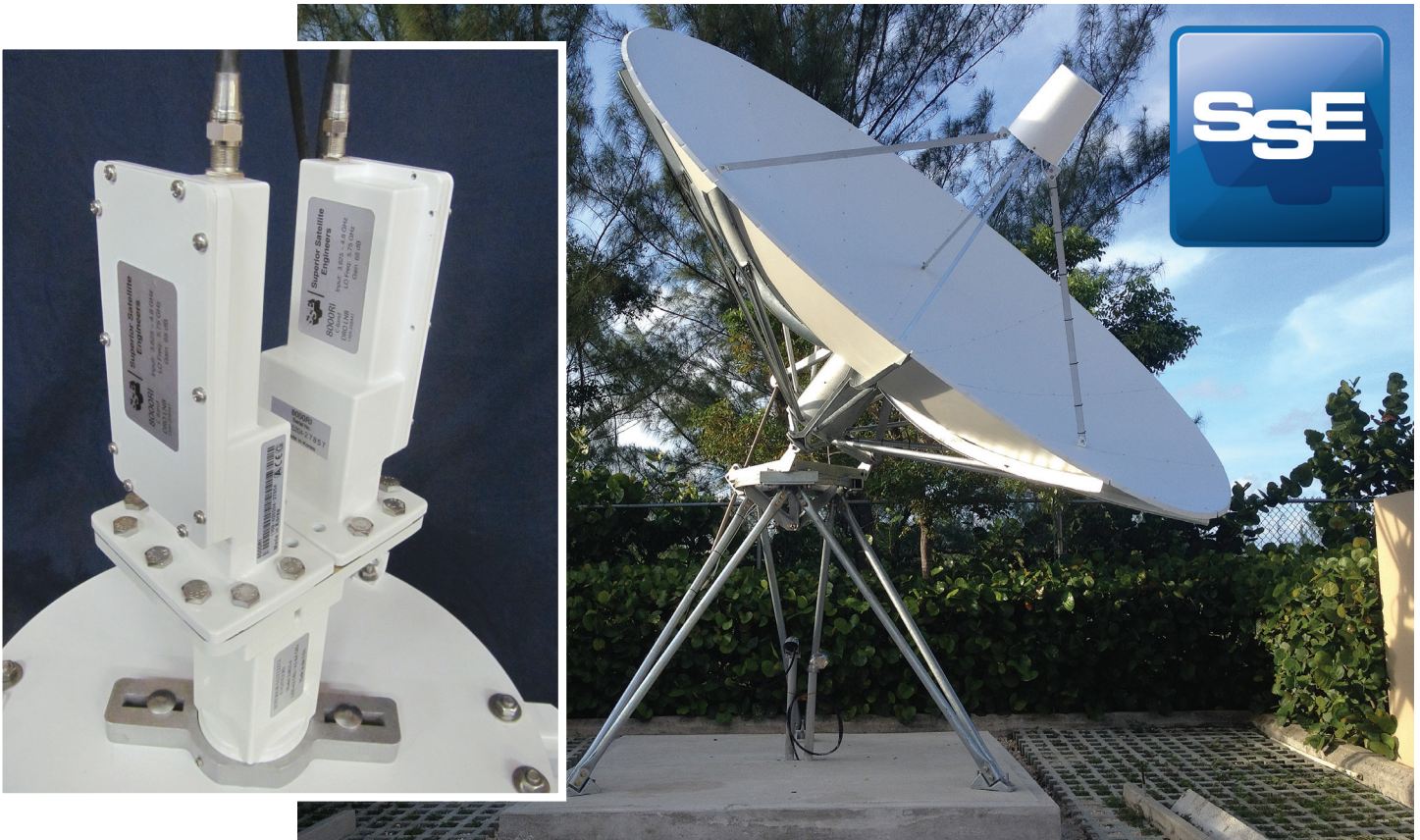


SUPERIOR SATELLITE

“Satellite Antenna Systems Engineering Excellence”

Modified Frequencies LNB Model 8000RI 3.625-4.8Ghz



In support of the new SES-6 Satellite at 40.5°W, Superior Satellite Engineers with Norsat International Inc. designed a new LNB that operates in “modified” C-band frequencies. The operating frequencies are 3.625-4.8GHz. This new modified-frequencies satellite is currently targeted for users in certain Latin American countries where the expanded 4.5-4.8GHz bandwidth is approved for commercial operations. With more regions moving to approve this bandwidth for commercial use and the benefit of nearly doubling transponder capacity we anticipate more satellites to be configured with “Modified Frequencies” in the future.

The 8000RI Modified Frequency LNBs are available individually for most commercial antenna systems or as a complete retrofit feed system package.

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SPECIFICATIONS

Power requirement	$\pm 15V$ to $\pm 24 V$ DC via center conductor
Noise Temperature	20K
Conversion gain.....	60dB min
Local Oscillator Stability	± 500 KHz
Output P1dB	8 dBm
Phase-noise.....	-65 dBc at 1 kHz
Current drain.....	130 mA
(SSB).....	-80 dBc at 10 kHz
-95 dBc at 100 kHz.....	
Input waveguide	229G
Input VSWR.....	2:0 1
Output VSWR.....	2.2: 1

MECHANICAL

Weight	15oz.
Dimensions.....	7.1 x 4.0 x 2.8"
Temperature range	-40°C to +60° C
I.F. Output (fitting).....	“F” Connector

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