

MULTIPLE OUTPUT WIDEBAND Ku AND Ka DOWNCONVERTERS



FEATURES

- Small weather resistant enclosure
- Automatic 5/10 MHz internal/external reference selection
- 10/100 Base-T Ethernet and RS-485/RS-422 remote control
- Superior phase noise below IESS-308/IESS-309 and MIL-STD-188-164B specification
- 30 dB gain control
- 32 memory locations
- High frequency stability
- Summary alarm
- AC power supply with power factor correction
- CE mark

OPTIONS

- Custom frequency ranges
- Higher frequency stability
- Lower phase noise with high performance package Option 1
- Fiber-optic L-Band interface

This Narda-MITEQ series of outdoor, antenna-mount block downconverters are designed to cover simultaneously multiple wide bandwidth satellite transponders providing two or three independent IF outputs.

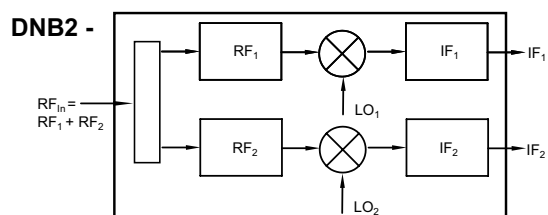
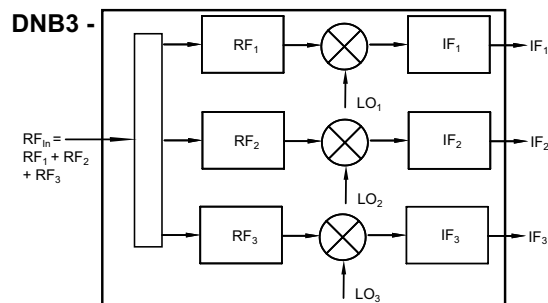
A strong set of monitor and control functions support powerful remote control. A contact closure summary alarm is provided for fault monitoring. A continuously updated log of time-stamped records of activity is also provided.

FREQUENCY CONVERTER

MULTI-OUTPUT SIMULTANEOUS DOWNCONVERTERS

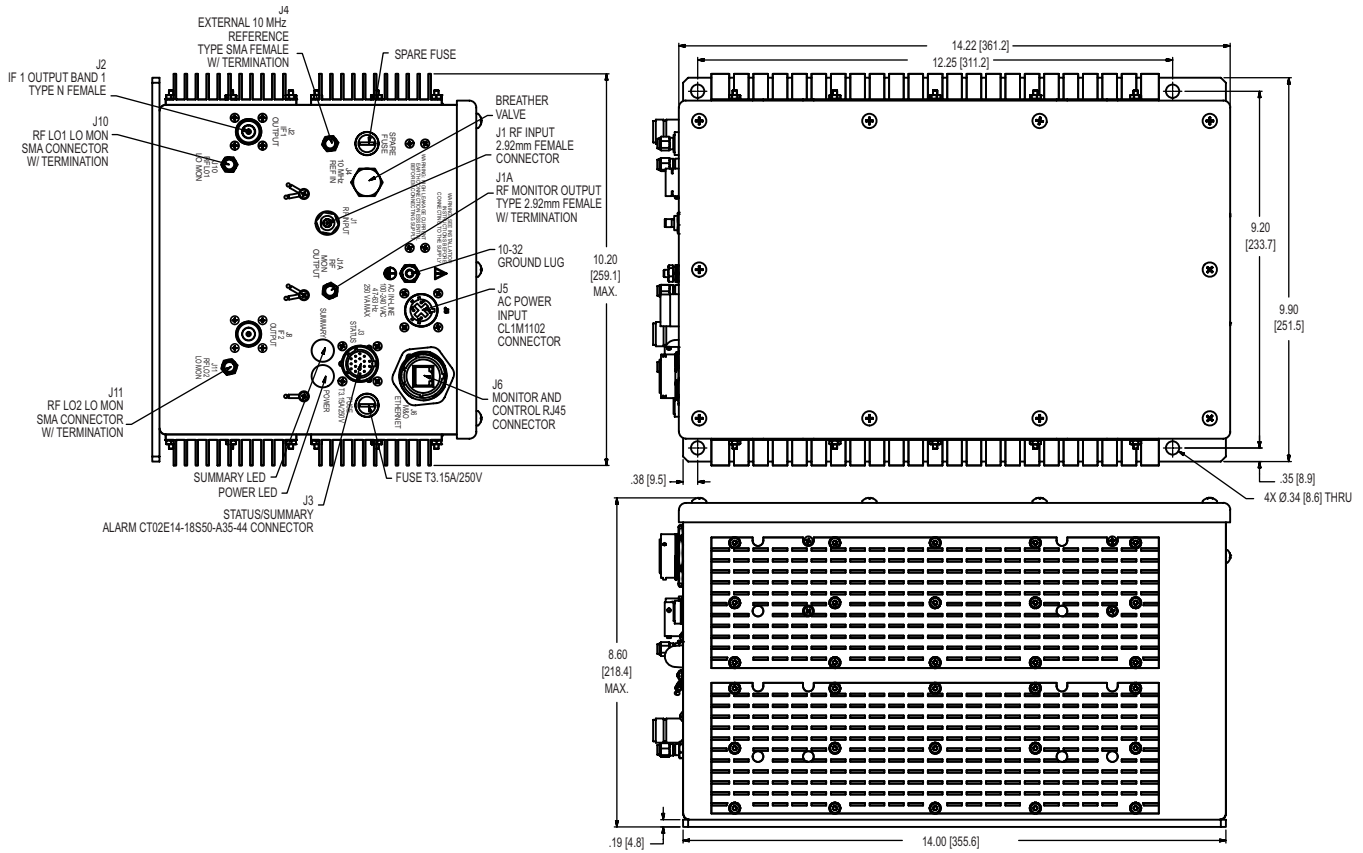
RF FREQUENCY (GHz)	IF FREQUENCY (GHz)	LO FREQUENCY (GHz)	MODEL NUMBER
10.7 to 11.45 (RF ₁)	0.95 to 1.7 (IF ₁)	9.75 (LO ₁)	DNB3-W-11.725
11.45 to 12.2 (RF ₂)	0.95 to 1.7 (IF ₂)	10.5 (LO ₂)	
12.2 to 12.75 (RF ₃)	0.95 to 1.5 (IF ₃)	11.25 (LO ₃)	
10.95 to 11.7 (RF ₁)	0.95 to 1.7 (IF ₁)	10.0 (LO ₁)	DNB3-W-11.8
11.7 to 12.2 (RF ₂)	0.95 to 1.45 (IF ₂)	10.75 (LO ₂)	
12.2 to 12.75 (RF ₃)	0.95 to 1.5 (IF ₃)	11.25 (LO ₃)	
10.7 to 11.75 (RF ₁)	0.95 to 2.0 (IF ₁)	9.75 (LO ₁)	DNB2-W-11.725
11.7 to 12.75 (RF ₂)	0.95 to 2.0 (IF ₂)	10.75 (LO ₂)	
17.7 to 18.7 (RF ₁)	0.95 to 1.95 (IF ₁)	16.75 (LO ₁)	DNB3-W-18.75-1
18.3 to 19.3 (RF ₂)	0.95 to 1.95 (IF ₂)	17.35 (LO ₂)	
19.2 to 20.2 (RF ₃)	0.95 to 1.95 (IF ₃)	18.25 (LO ₃)	
18.3 to 18.8 (RF ₁)	0.95 to 1.45 (IF ₁)	17.35 (LO ₁)	DNB3-W-19.75
19.7 to 20.2 (RF ₂)	0.95 to 1.45 (IF ₂)	18.75 (LO ₂)	
20.2 to 21.2 (RF ₃)	0.95 to 1.95 (IF ₃)	19.25 (LO ₃)	
19.7 to 20.2 (RF ₁)	1.5 to 2.0 (IF ₁)	18.2 (LO ₁)	DNB2-W-20.45
20.2 to 21.2 (RF ₂)	1.0 to 2.0 (IF ₂)	19.2 (LO ₂)	
17.0 to 18.8 (RF ₁)	0.80 to 2.60 (IF ₁)	16.2 (LO ₁)	DNB3-W-19.5-1.8
18.6 to 20.4 (RF ₂)	0.80 to 2.60 (IF ₂)	17.8 (LO ₂)	
20.2 to 22.0 (RF ₃)	0.80 to 2.60 (IF ₃)	19.6 (LO ₃)	
27.5 to 28.5 (RF ₁)	0.95 to 1.95 (IF ₁)	26.55 (LO ₁)	DNB3-W-28.75-1
28.3 to 29.3 (RF ₂)	0.95 to 1.95 (IF ₂)	27.35 (LO ₂)	
29.0 to 30.0 (RF ₃)	0.95 to 1.95 (IF ₃)	28.05 (LO ₃)	
27.0 to 28.5 (RF ₁)	0.95 to 2.45 (IF ₁)	26.05 (LO ₁)	DNB3-W-29.5-1.5
28.3 to 29.8 (RF ₂)	0.95 to 2.45 (IF ₂)	27.35 (LO ₂)	
29.5 to 31.0 (RF ₃)	0.95 to 2.45 (IF ₃)	28.55 (LO ₃)	

BLOCK DIAGRAMS



FREQUENCY CONVERTER

OUTLINE DRAWING



Note: Dimensions shown are in inches and those shown in brackets [] are in millimeters.

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The material presented in this datasheet was current at the time of publication. Narda-MITEQ's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current.

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