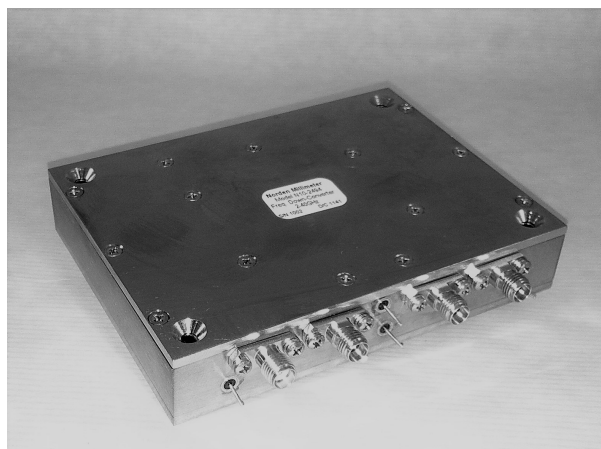




# NDC1840I0217N14B

18-40 GHz Frequency Down Converter  
With 0.5-18 GHz Bypass



## FEATURES:

RF Frequencies: 18-26.5/26.5-40 GHz  
IF Frequencies: 2.3-10.8/3.2-16.7 GHz  
LO Frequency: 14.4 GHz  
Conversion Gain Min: 12 dB  
Gain Flatness:  $\pm 2.5$  dB  
Operating Temperature: 0 to +50 deg C

Norden Millimeter offers wide band frequency Down Converters and Up Converters for military and commercial applications. The NDC1840I0217N14B is an example of our “standard” product line of wide band converters. Norden also offers custom units incorporating temperature compensating functions, variable attenuation, defined gain slope and other frequency bands. Norden is ISO 9001 and AS9100 Certified.

## SPECIFICATIONS

Model Number	NDC1840I0217N14B
RF Frequency (GHz)	18-26.5/26.5-40
IF Frequency (GHz)	2.3-10.8/3.2-16.7
Bypass Frequency (GHz)	0.5-18
LO Fundamental Frequency (GHz)	14.4
LO Drive (dBm)	-3 to 0
Conversion Gain Minimum (dB)	12
Gain Flatness (dB)	$\pm 3.0$
Gain Variation Over Temperature Typ (dB)	$\pm 0.5$
Noise Figure Maximum (dB)	14.5
Input P1 dB Typ (dBm)	-20
Image Rejection Minimum (dBc)	65
RF/LO/IF Return Loss Maximum (dB)	-7.36
LO-IF Leakage Maximum (dBm)	-65
LO-RF Leakage Manimum (dBm)	-70

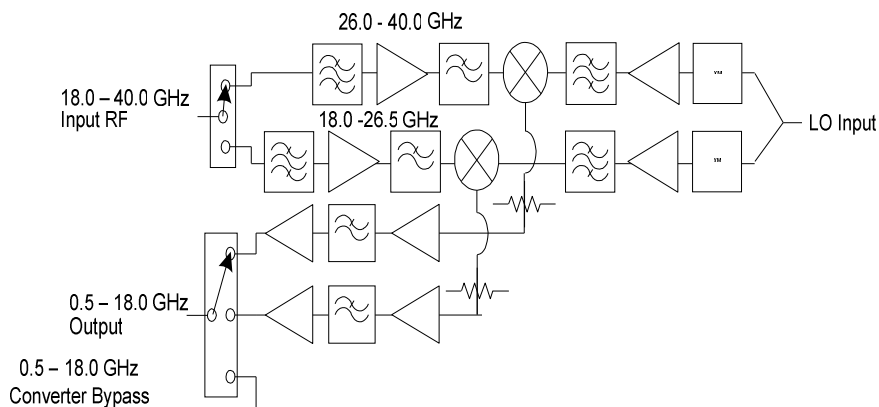
Data Temp @ +25 Deg C



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## BLOCK DIAGRAM



## LOGIC CONTROL (TTL)

LOGIC	BAND 1 (18-26.5)	Band 2 (26.6-40)	IF Bypass (0.5-18)
Band Switch	0	1	X
Bypass Switch	0	0	1

Power Supply: Voltage 8-12 VDC  
Current 1400 mA

RF Connector: 2.92mm Female  
LO/IF/Bypass Connectors: SMA Female



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## MECHANICAL OUTLINE

