

DATASHEET

Norden Millimeter is the leading developer of microwave and millimeter wave products, creating standard and custom RF amplifiers, frequency multipliers, frequency converters, and custom assemblies.

NDC0812I0203N18 FEATURES

Input Frequency
8 - 12 GHz

Output Frequency
2.625 - 3.625 GHz

Input PowerLevel Max
-15 dBm

IF Output P1dB
11 dB

IF Output Noise Density
-140 dBc/Hz

Unit to Unit Isolation
80 dB

Norden Millimeter has an extensive catalog of precisely engineered frequency converter, with military, commercial, and test applications. Our NDC0812I0203N18 Converter is one of our most widely used products, covering the 8 - 12 output frequencies.

We encourage you to contact our sales team at 530-719-4704 to discuss your questions and applications. With amplifiers, down converters, up converters, transceivers, and other products operating between 0.5 and 110 GHz, Norden Millimeter is the top choice for both standard products and custom assemblies.

Norden Millimeter is ISO 9001:2015 and AS 9100D Certified.

NDC0812I0203N18

8 - 12 GHz Down Converter

SPECIFICATIONS

Specification	Units	MIN	MAX
RF Characteristics			
RF Input Frequency	GHz	8	12
RF Input Power Level, Maximum	dBm		-15
RF Input Power Dynamic Range	dB	25	
RF Input Power Level, Maximum no damage	dBm		0
Channel Bandwidth (IBW)	MHz	1000	
IF Output Frequency Range	GHz	2.625	3.625
IF Output Spurious	dBc		-60
IF Output Spurious as a result of Integer, Fractional multiples, and MxN products of LO1 & LO2	dBc		-85
Conversion Gain	dB	14	18
Channel Bandwidth Flatness	dB		± 1
IF Output P1dB	dBm	11	
3rd Order Intercept Point	dBm	19	
RF/IF Isolation	dB	80	
IF Output Noise Density	dBc/Hz		-140
Propagation Delay	nSec		200
Group Delay Variance over output IBW	nSec		± 10
LO1 Swept Input Frequency	GHz	9.20625	9.95625
LO1 Input Power Level	dBm	0	4
LO1/IF Leakage	dBm		-65
LO1/RF Leakage	dBm		-65
LO2 Fixed Input Frequency	GHz		6.3
LO2 Input Power Level	dBm	0	4
LO2/IF Leakage	dBm		-65
LO2/RF Leakage	dBm		-65
Unit to Unit Isolation	dB	80	



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