

MDC100ANIG-SN- CW

**MEDIAN 100W C Band GaN BUC
(WGS Compatible + Cyber Hardened
+ AC)**

Reference + Spectral Internal Standard Stability +
Inversion: Non-inverting
Input Connector: N Connector
RF Frequency: 5850 - 6425 MHz



KEY SPECIFICATIONS

Band	C-Band
Frequency Sense	Non-inverting
Input Frequency Band 1	950 - 1525 MHz
Output Frequency Band 1	5850 - 6425 MHz
Output Power Rated	100W
Reference Type	Internal Standard Stability

RF SPECIFICATIONS

19 Db Min Of NPR	44 dBm
Attenuator Range	30 dB variable in 0.1 dB steps
Gain Flatness (1mhz)	0.25 dB p-p max
Gain Flatness (36mhz)	1 dB p-p max
Gain Flatness (over Full Band)	3 dB p-p max
Gain Variation Over Temperature (open Loop)	3 dB p-p max
Gain Variation Over Temperature (witg Agc)	1 dB p-p max
Gain Version	WGS Compatibility Option
Harmonics	-50 dBc max.
Input Impedance	50 Ohm
Input Power Detector Range	-35 to 0 dBm
Input VSWR	1.5 : 1
Level stability with alc	± 0.5 dB
Output Noise Power Density Rx	145 dBm/Hz
Output Noise Power Density Tx	77 dBm/Hz

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Output P1db	50 dBm
Output Plin	47 dBm
Output Spurious In Band	-65 dBc
Output Spurious Out Of Band	Complies with EN 301 443 & MIL-STD 188-164C
Output VSWR	1.3 : 1 max
Phase Noise 0.01khz Offset Max	-54 dBc/Hz
Phase Noise 0.1khz Offset Max	-79 dBc/Hz
Phase Noise 1khz Offset Max	-89 dBc/Hz
Phase Noise 10khz Offset Max	-94 dBc/Hz
Phase Noise 100khz Offset Max	-100 dBc/Hz
Phase Noise 1000khz Offset Max	-110 dBc/Hz
Small Signal Gain	70 dB min

ELECTRICAL SPECIFICATIONS

Current Consumption Plin	420 VA
Current Consumption Psat	510 VA
Output Power Detector Range	Rated power to -20 dB
Power Reading Accuracy	± 1.0 dB max.
Power Requirements	100 to 240 VAC
Power Supply	AC Powered

INTERFACE SPECIFICATIONS

IF Connector	N
M And C Option	Cyber Hardened
Output Connector	CPR-137G

ENVIRONMENTAL SPECIFICATIONS

Altitude	10,000 ft (3,000 m) ASL
Humidity	100% Condensing
Temperature Operational	-40°C To +55°C

PHYSICAL SPECIFICATIONS

Product Height Case 1	155 mm
Product Length Case 1	267 mm
Product Weight	6.1 kg
Product Width Case 1	152 mm

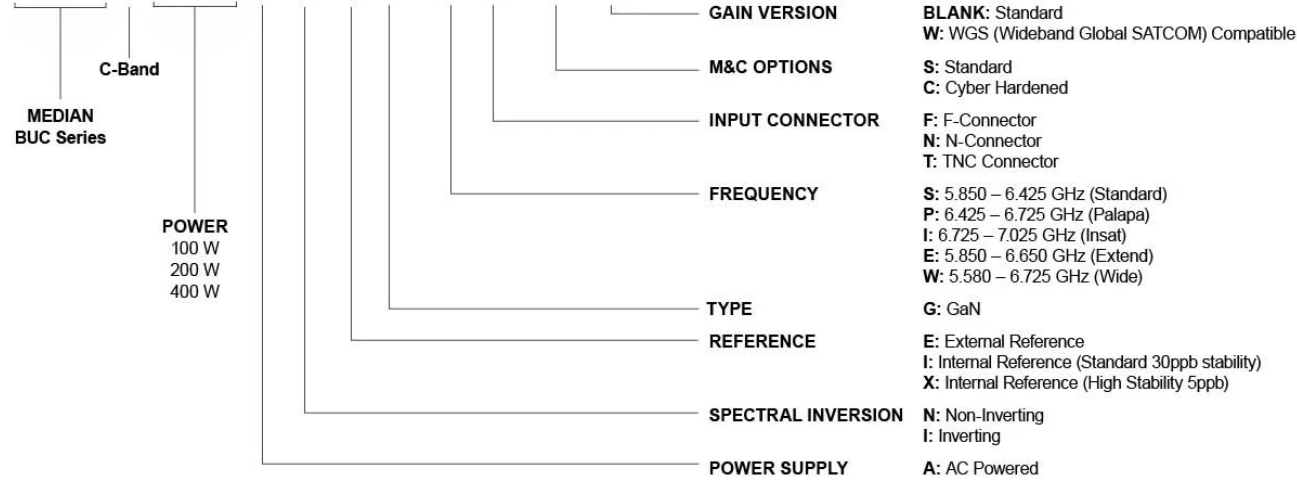
LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517620090	Made in USA	Richmond, BC, Canada	EAR99	9.53 kg



HOW TO ORDER

MDC100ANEG-SN-CW



MECHANICAL DIAGRAMS