

GAIN THE ADVANTAGE

VERSION: 1.1

PRODUCT DESCRIPTION:

The DF-A0257 is a tri band, compact Adcock DF antenna intended for direction-finding from 20 MHz to 6000 MHz.

The antenna presents patterns suitable for the Watson-Watt estimation method, as well as 3-channel correlative DF (CDF). The antenna offers an omni-channel output that can also be used for monitoring.

The DF-A0257 has a low noise amplifier on each channel with passive bypass capability, an integrated noise source or optional external signal can be used for downstream RF chain calibration and also includes a navigation and GPS.

*CA Application 2,853,219;

*EP Patent 2771943;

*U.S. Patent No. 14/353,382;

*ZA Patent No. 2014/02806

See outline below
< 1.5 kg incl bracket
o meet the following
160 km/h (without ice)
-30 °C to +70 °C
Designed to MIL-STD-810F for ground vehicles
IP66

Compact Adcock DF Antenna

20 - 6000 MHz

Product Code: DF-A0257

SPECIFICATIONS:

RS485 communication	on interface	
USB V2.0 communication interface, 64 MB		
		USB V2.0 communic
integrated inertial navigation system and		
64 MB onboard mem	ory	
20 – 6000 MHz		
Band B: 20 - 500 MHz		
Band C: 400 - 2000 M	Hz	
Band D: 2000 - 6000 MHz		
Watson-Watt or 3-channel CDF		
50 Ω		
DF-A0257	DF-A0257-02 / -05	
	000 MHz	
	2 dB	
kbaud	USB V2.0	
	< 25 µs	
dedicated lines		
DF-A0257 / -02	DF-A0257-05	
Integrated compass	Integrated GPS/INS ¹	
	unit.	
2° RMS	Heading accuracy	
A 24:	0.3° RMS	
Model no poriel no	DF-A0257-02 / -05	
	64MB flash in addition to Model no.	
usti uala IItius	serial no.,	
	user data fields	
None	to integrated micro	
	controller	
RF chain calibration us	sing Integrated noise	
source or external applied signal		
6 - 18 V DC		
< 3W		
-		
MIL-DTL-38999 multi-pin connector		
·····•	3 x co-axial	
3 x co-axial		
3 x co-axial 1 x co-axial		
3 x co-axial 1 x co-axial 1 x co-axial		
3 x co-axial 1 x co-axial 1 x co-axial 4 x digital		
3 x co-axial 1 x co-axial 1 x co-axial 1 x co-axial 4 x digital 4 x digital (DF-A0257-		
3 x co-axial 1 x co-axial 1 x co-axial 1 x co-axial 4 x digital 4 x digital (DF-A0257-Removable flange for		
3 x co-axial 1 x co-axial 1 x co-axial 1 x co-axial 4 x digital 4 x digital (DF-A0257-	vehicle or mast-	
	onboard memory USB V2.0 communication integrated inertial na 64 MB onboard mem 20 – 6000 MHz Band B: 20 - 500 MHz Band C: 400 - 2000 M Band D: 2000 - 6000 M 3 Watson-Watt or 3-chart See graph below Vertical Yes 50 Ω DF-A0257 20 – 60 12 ± RS 485 serial at 115 kbaud < 100 μs using serial commands < 5 μs when using dedicated lines DF-A0257 / -02 Integrated compass Heading accuracy 2° RMS Activ DF-A0257 Model no., serial no., user data fields None RF chain calibration us	

Notes:

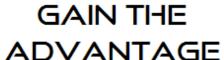
1 VN-200 GPS/INS



AUTHORIZED USA DISTRIBUTION BY:

Cyntony Corporation 195 Follen Road Lexington, Massachusetts sales@cyntony.com 781-430-0675

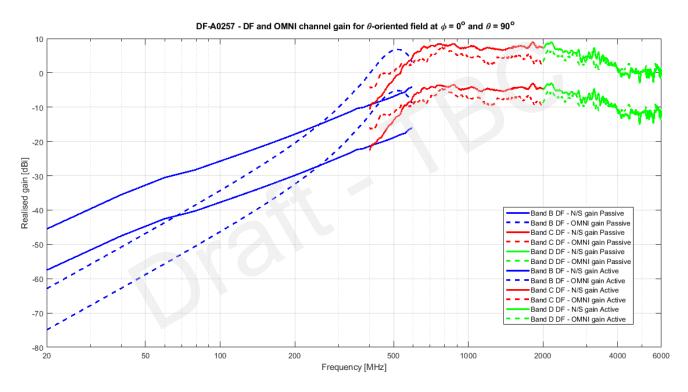




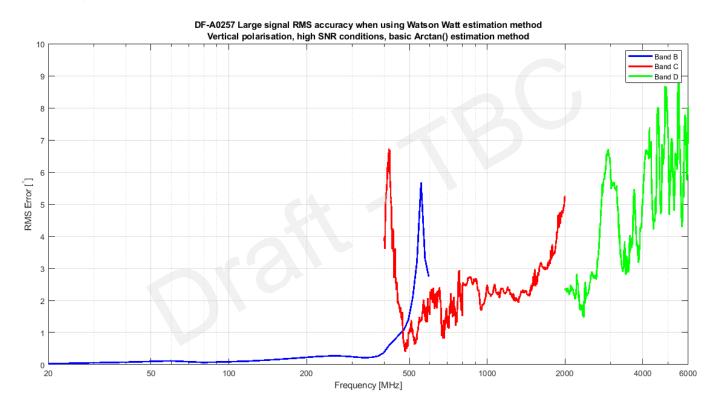
20 - 6000 MHz

Product Code: DF-A0257 VERSION: 1.1

Antenna Channel Gain (TBC*):

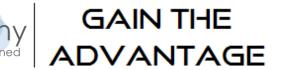


DF Accuracy (TBC*):



Guality Management ISO 9001 Parameters ISO 900

AUTHORIZED USA
DISTRIBUTION BY:
Cyntony Corporation
195 Follen Road
Lexington, Massachusetts
sales@cyntony.com
781-430-0675

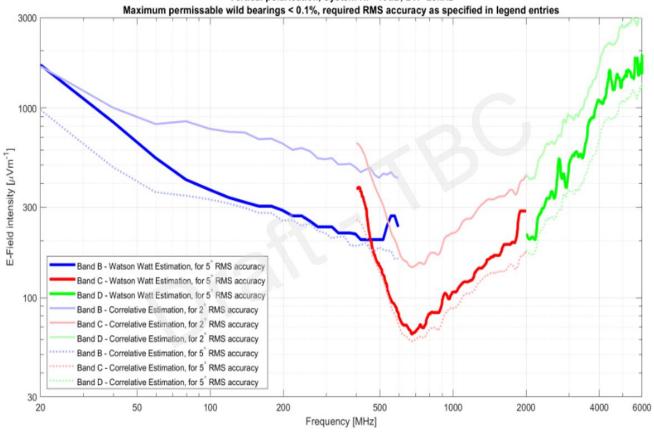


20 - 6000 MHz

Product Code: DF-A0257 **VERSION: 1.1**

DF Sensitivity (TBC*):

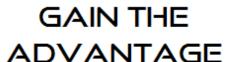
DF-A0257 DF Sensitivity with Watson Watt and Correlative Methods Vertical polarisation, System NF=10dB, BW=25kHz





Cyntony Corporation 195 Follen Road Lexington, Massachusetts sales@cyntony.com 781-430-0675



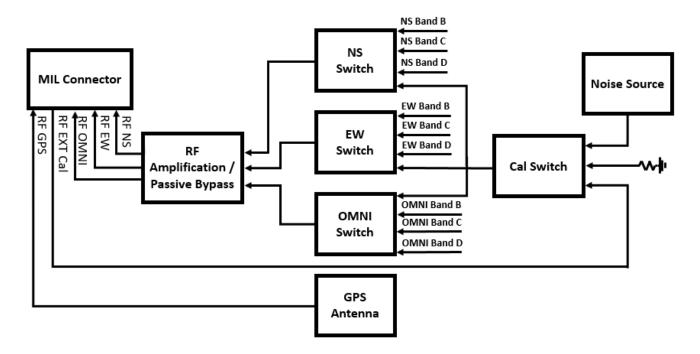


20 - 6000 MHz

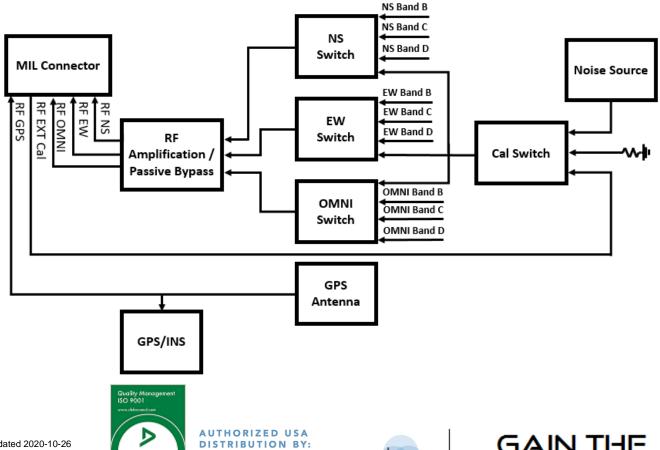
Product Code: DF-A0257 **VERSION: 1.1**

RF Block Diagram:

DF-A0257 / -02:



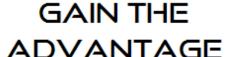
DF-A0257-05:



Updated 2020-10-26



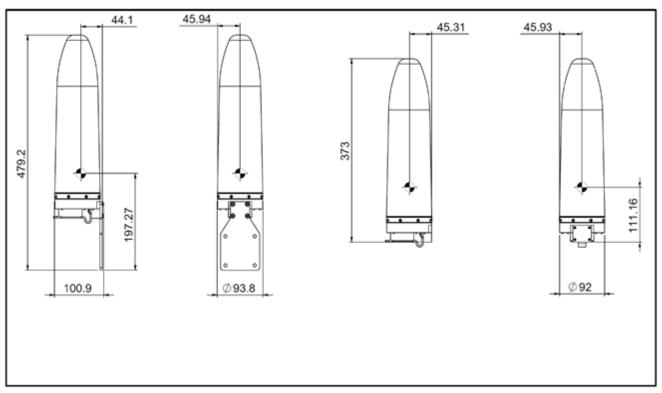


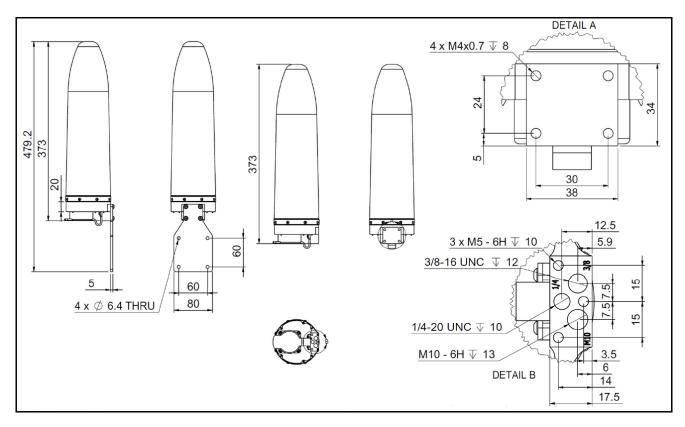


20 - 6000 MHz

Product Code: DF-A0257 **VERSION: 1.1**

Mechanical Outline:







Cyntony Corporation 195 Follen Road Lexington, Massachusetts sales@cyntony.com 781-430-0675

