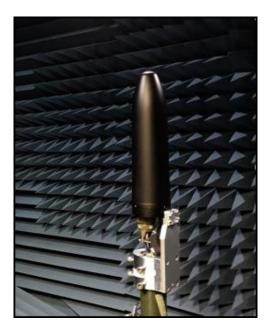


VERSION: 1.5



PRODUCT DESCRIPTION:

The DF-A0254 is a dual band, compact Adcock DF antenna intended for direction-finding from 400 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-A0254 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 various compass and GPS options.

*CA Application 2,853,219; *EP Patent 2771943; *U.S. Patent No. 14/353,382; *ZA Patent No. 2014/02806

Mechanical:		
Dimensions	See outline below	
Total mass	1.1 kg incl bracket	
Environmental: designed t specifications	o meet the following	
Wind survival	160 km/h (without ice)	
Temperature (operation)	-30 °C to +70 °C	
Vibration and shock	Designed to MIL-STD-810F for ground vehicles	
IP Rating	IP66	

Compact Adcock DF Antenna

400 - 6000 MHz Product Code: DF-A0254

SPECIFICATIONS:

Product Code: DF-A0254	RS485 communicatio	n interface and	
	electronic compass		
DF-A0254-01	RS485 communication interface and electronic compass, no Amplification		
DF-A0254-02	USB V2.0 communication interface, 64 MB onboard memory		
DF-A0254-05	USB V2.0 communication interface, integrated inertial navigation system and 64 MB onboard memory		
Electrical: DF			
Frequency range	400 – 6000 MHz		
Frequency bands	Band C: 400 - 2000 MHz		
1 ,	Band D: 2000 - 6000 MHz		
Number of channels	3 Webee Webee 2 shows 1 ODE		
DF method RMS accuracy	Watson-Watt or 3-channel CDF		
Polarisation	See graph below Vertical		
Omni-output	Yes		
Nominal input impedance	50 Ω		
Electrical:	DF-A0254 / -01	DF-A0254-02 / -05	
Frequency range	400 – 6000 MHz		
RF Amplification Gain	17 ± 2 dB (excl DF-A0254-01)	17 ± 2 dB	
Control	RS 485 serial at 115 kbaud	USB V2.0	
Switching time	 < 100 µs using serial commands < 5 µs when using dedicated lines 	< 25 µs	
Integrated features:	DF-A0254 / -01 / -02	DF-A0254-05	
Navigation	Integrated compass	Integrated GPS/INS ¹	
, langalon	Heading accuracy 2° RMS	unit. Heading accuracy 0.3° RMS	
GPS Antenna	Active (L1)	Active (L1)	
	DF-A0254 / -01	DF-A0254-02 / -05	
Onboard Storage	Model no., serial no., user data fields	64MB flash in addition to Model no., serial no., user data fields	
Programming interface	None	to integrated micro controller	
RF calibration	RF chain calibration using Integrated noise source or external applied signal		
Power supply	6 - 18 V DC		
Power consumption	< 3W		
Interfaces:		vin connector	
Connector Antenna outputs	MIL-DTL-38999 multi-pin connector		
Integrated GPS	3 x co-axial 1 x co-axial		
Ext cal input	1 x co-axial		
Control and power	4 x digital		
Programming	4 x digital (DF-A0254-02 / -05 only)		
Mechanical	Removable flange for vehicle or mast- mounting Various sockets for tripod / gooseneck (1/4-20 UNC, 3/8-16 UNC, M10-6H, 3x M5-6H)		

Notes: VN-200 GPS/INS 1.



GAIN THE DVANTAGE

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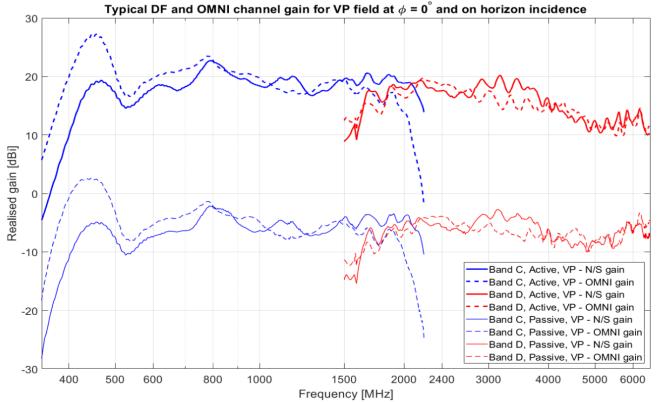
DISTRIBUTION BY:

400 - 6000 MHz

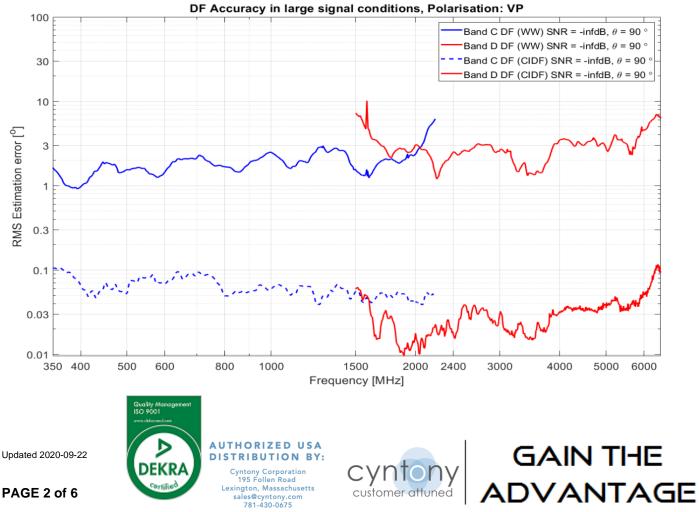
Product Code: DF-A0254

VERSION: 1.5

Antenna Channel Gain:



DF Accuracy:



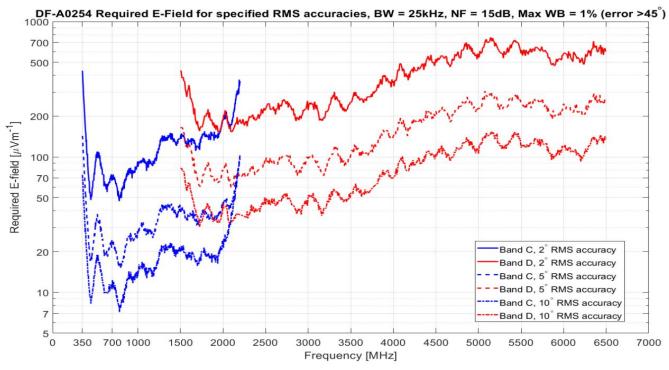
customer attuned

400 - 6000 MHz

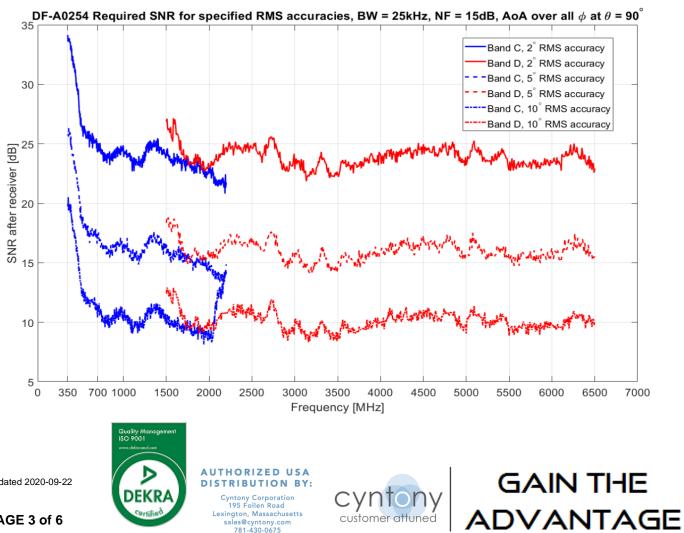
Product Code: DF-A0254

VERSION: 1.5

DF Sensitivity:



DF Required SNR:



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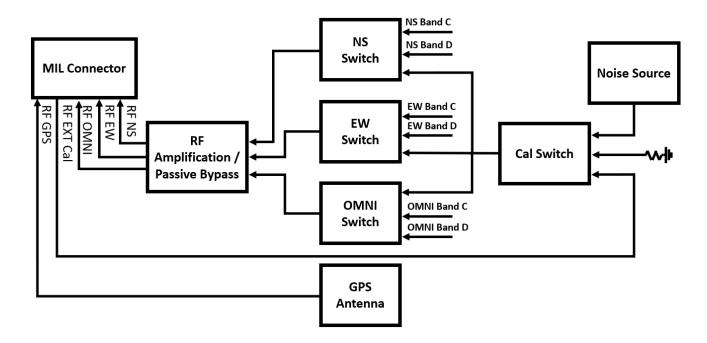
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400 - 6000 MHz

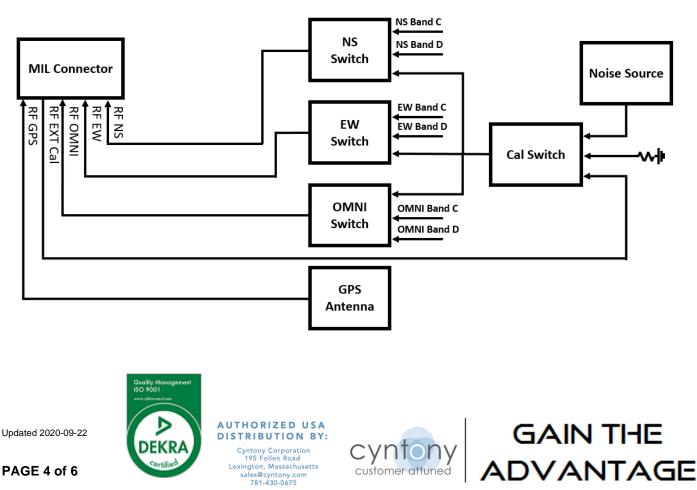
Product Code: DF-A0254

RF Block Diagram:

DF-A0254 / -02:



DF-A0254-01

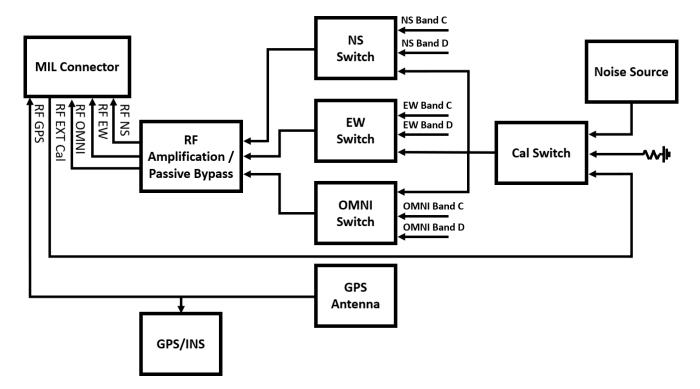


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400 - 6000 MHz

Product Code: DF-A0254

DF-A0254-05:



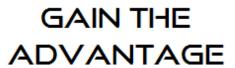


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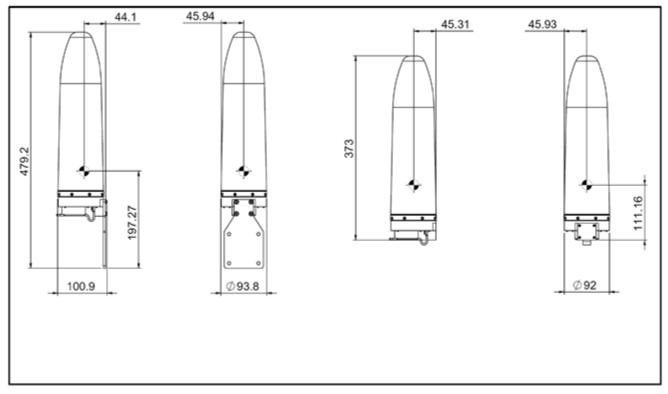
VERSION: 1.5

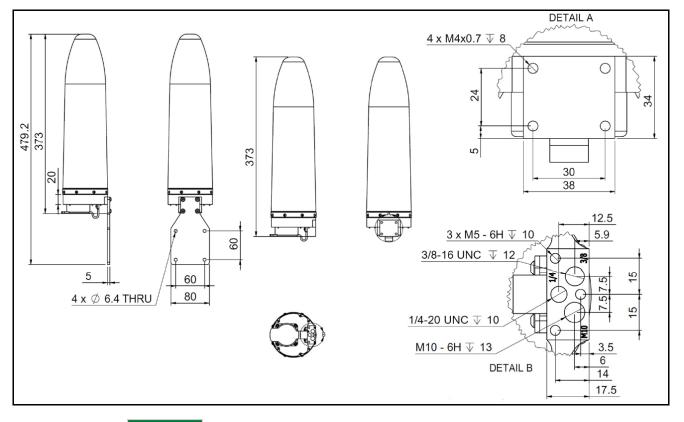
400 – 6000 MHz

Product Code: DF-A0254

VERSION: 1.5

Mechanical Outline:







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Cyr customer attuned

