



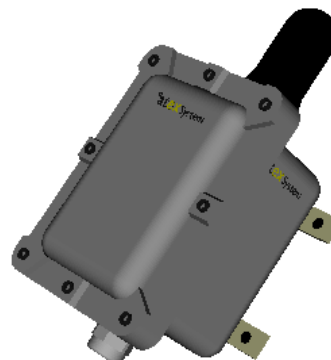
CCF1GCTM1500A – GPS Passive antenna enclosure

Protection mode:

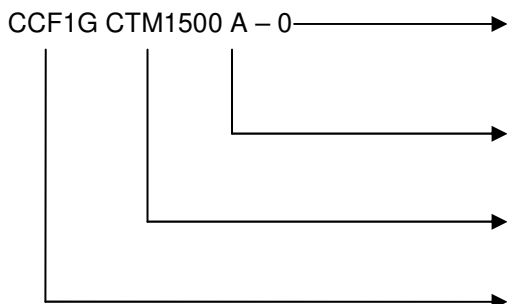
Type of protection: II 2G Ex d IIB
 Class of temperature: T5
 Ambient temp: -20/+40°C
 Zones: 1-2

Description:

ATEX antenna GPS 1,575.42MHz for gas zones (1 & 2). Lightweight and compact, body in aluminum, antenna in nickel plated brass. Unarmoured cable gland M20 kit in nickel plated brass (seals 5.5/8 - 8/10.5 - 10.5/13mm). TNC female connector. Hazardous tank level monitoring, offshore platforms, chemical processing, power plants...



References:



Length of cable

0 : without cable
 5 : 5 meters of cable
 10 : 10 meters of cable

Amplifier

A114 40dB

Antenna

1,575.42MHz

Enclosure model

CCF1G

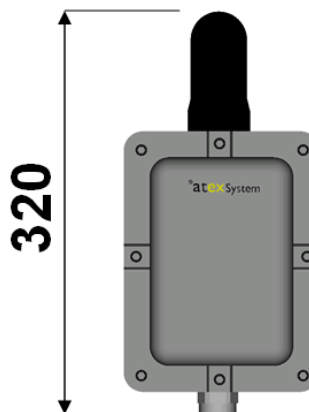
Antenna technicals data :

- Frequency: 1,575.42MHz
- Impedance: 50Ω
- Gain: 0.0 dBi
- Max Power: 2 Watts
- Connector : female TNC

Content :

- 1 GPS antenna
- 1 Amplifier
- 1 Cable gland unarmoured M20 kit seal
- 1 CCF1G enclosure

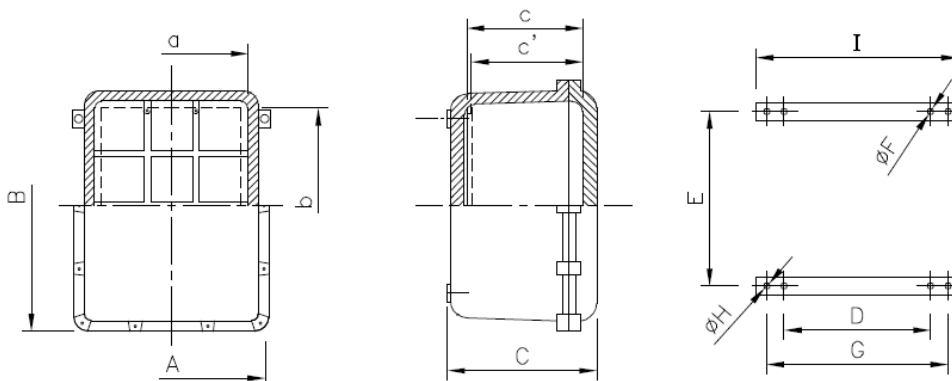
Approx height (mm):





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Housing dimensions:



Model	External dimensions (mm)			Internal dimensions (mm)				Fixing (mm)					Weight (kg)	
	A	B	C	a	b	c	c'	D	E	F	G	H		I
CCF1G	150	200	127	93	143	96	94	104	110	M6	140	7	160	4,1

A114 40dB Amplifier:

Features

- Excellent Gain $G > 40\text{dB}$
- Filtered option available
- Passes GPS
- 0dB to 40dB variable gain option available

Model supplied

A114T-SF (In-line Amplifier 40dB, tiny housing, SMA female)

Other models on request.



RF Connector Options:		
Connector Options	Connector Type	Limitations
	N (Male & Female)	
	SMA (Male & Female)	
	TNC (Male & Female)	
Housing Options:		
Housings	Housing Type	Limitations
	Mini,	None
	Tiny	SMA Only
Port Options:		
Pass DC	OUT Port Passes DC to IN	
DC Blocked	Blocks DC to IN Port	



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Parameter	Conditions	Min	Typ	Max	Units
Freq. Range	IN – OUT, IN/OUT-50Ω	1.2		1.7	GHz
In/Out Imped.	IN, OUT		50		Ω
Gain ⁽¹⁾ 1227MHz 1575MHz	IN – OUT, IN/OUT-50Ω	38 38	40 40	42 42	dB
Variable Gain Opt ⁽¹⁾ 1227MHz: Max Gain: Min Gain: 1575MHz: Max Gain: Min Gain:	IN – OUT, IN/OUT-50Ω	37 -1 37 -1	38 0 38 0	39 1 39 1	dB
Filtered Opt ⁽¹⁾⁽²⁾ 1227MHz: 1575MHz: Reject. (-50MHz) Reject. (+50MHz)	IN – OUT, IN/OUT-50Ω	37 -30 -42	38.5	0 39	dB
Input 1dB Comp.	IN – OUT, IN/OUT-50Ω	-41			dBm
Input IP ₃	IN – OUT, IN/OUT-50Ω	-33			dBm
Input SWR ⁽¹⁾	OUT Port - 50Ω			2.5:1	-
Output SWR ⁽¹⁾	IN Port - 50Ω			2.5:1	-
Noise Figure ⁽³⁾	IN – OUT, IN/OUT-50Ω			2.0	dB
Gain Flatness	L1 – L2 , IN – OUT, IN/OUT-50Ω			3	dB
Group Delay Flatness	T _{d,max} – T _{d,min} , IN – OUT			1	ns
Reverse Isolation	OUT – IN	40			dB
DC IN	DC Input on IN/OUT port	3		16	VDC
Device Current	Current Consumption of device, excludes Ant. Cur.			20	mA
Ant/Thru Current	Non-Powered Configuration, DC Input on OUT port			250	mA
Max RF Input	Max RF input without damage			10	dBm

Performance data :

