

BD732 dual band

Ku-band block downconverters in 1U 19" chassis

Full receive band coverage with dual BDC

	PUT SPECIFICATION	ON		
1.	Frequency range:		10.70 to 11.7GHz (LO), 11.7 to 12.75GHz (HI)	
			single wide band input	
2.	Connector:		SMA	N-type
3.	Impedance:		50Ω	
4.	Return loss:		≥18dB	
	TPUT SPECIFICAT	ΓΙΟΝ		
5.	Frequency range:		950 to 1,950MHz (LO) and 950 to 2,000MHz (HI)	
			two independent outputs	
6.	Connector:		SMA	N-type
7.	Impedance:		50Ω	
8.	Return loss:		≥15dB typical	
9.	1dB compression po	int:	+10dBm min., at full gain	
10.	3rd orde intercept:		+23dBmmin., at full gain	
11.	Input signal power:		Max recommended: 0dBm minus operational gain	
	ANSFER CHARAC	TERISTICS		
12.	Gain:		20 to 30dB adjustable via remote interface	
13.		er any 40MHz transponder:	$\leq \pm 0.3$ dB p.t.p.	
	over each operation	onal output band (LO & HI):	$\leq \pm 1.5$ dB p.t.p	
14.	Gain stabilitiy with t	emperarture	- 0.03dB/°C	
15.	External reference:		10MHz, 0dBm nominal (± 3dB)	
16.	Local Oscillator:		9.75GHz (LO band), 10.75GHz (HI band)	
17.	7. Noise figure:		<20dB	
Spu	ırii			
18.	Signal independent:		≤-75dBm at maximum gain	
19.	Signal related:		≤-75dBc at maximum gain and 0dBm output	
PH	ASE NOISE (*)		Typical (*)	
20.	10Hz:		<-45dBc/Hz	
21.	100Hz:		<-65dBc/Hz	
	1kHz:		<-75dBc/Hz	
	10kHz:		<-85dBc/Hz	
	100kHz:		<-95dBc/Hz	
	1MHz:		<-100dBc/Hz	
	Mains related:		<-50dBc/Hz	
	SCELLANEOUS			
	Power supply:		$115V/230V \pm 10\%$, $50/60Hz \pm 10\%$, $20VA$	
	Mechanical form and dimensions:		1U 19" frame, 400mm deep	
	Weight:		6kg aprox.	
	Chassis material:		Passivated conductive aluminium	
31.	Temperature:	Operating:	-20° to $+50^{\circ}$ C	
		Storage:	-50° to $+70^{\circ}$ C	
	Humidity:		99% non-condensing (**)	
33.	Summary alarm:		NO and NC dry relay contacts via rear	
			mounted connector	
	Summary alarm indication:		Through front panel LED, parallel and RC&M interfa-	ace
	Remote interface:		TCP/IP, SNMP compliant protocol	
36. EMC, RoHS, REACH co		H compliance:	EC marked as per applicable EU regulations.	
			RoHS and REACH compliant.	
			Certificates supplied with manufactured goods.	
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(*) Phase noise figures are with internal reference ONLY. Phase noise with external reference are a function of such external reference, as such they may be better, worse or similar to the ones provided

(**) Equipment is not safe working under condensing humidity

Note: While Novella makes every effort to ensure 100% accuracy of these documents, errors and omissions may occur. Novella will undertake to inform interested parties of corrections and amendments which are material for running contracts Specifications are subject to change at any time without prior notice.

Design and manufacture of Satellite Earth Station RF equipment

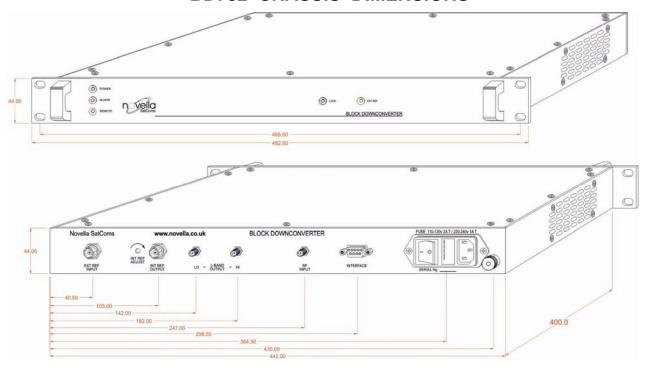


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FRONT AND REAR VIEW OF BD732



BD732 CHASSIS DIMENSIONS



Brief description

BD732 is a dual channel simple single conversion Block Downconverter. The full input band of 10.7 to 12.75GHz is notionally split in two sub-bands, LO (10.7 to 11.7GHz) and HI (11.7 to 12.75GHz) and each band is downconverted to, respectively 950 to 1,950MHz and 950 to 2,000MHz using two very low phase noise local oscillators (LO's) with frequencies 9.75 and 10.75GHz.

Both BDC's are simultaneously operational and together provide a translation from Ka-band receive to extended L-band.

The internal LO's are locked to an internal high stability OCXO (oven controlled crystal oscillator which in turn may be locked to an outdoor 10MHz station standard.

Standard units have fixed gain of 25dB, units with remote interface have variable gain adjustable between 20 and 30dB.

Remote interface, when fitted is TCP/IP, SNMP compliant. A SNMP client software is required to interface to this unit. Alternatively a web browser may be used to monitor and control the unit. Only the gain may be controlled in this unit