

# 高频头DVB-S 9XS11M-20

产品名称	高频头DVB-S 9XS11M-20
公司名称	深圳市中龙通电子科技有限公司
价格	50.00/PCS
规格参数	加工定制:是 品牌:cdt 型号:cdt-9xs11m-20
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## 产品详情

description: this specification covers l-band to i and q base-band tuner intended for use in digital modulated satellite receiver.

### general specifications

receiving frequency range	900mhz to 2250mhz
input signal level per channel	-85dbm to 5dbm
nominal rf input impedance	75 (f-connector)
local frequency range	900mhz to 2250mhz
channel selection system	pll synthesize
local step frequency	1mhz
agc input voltage	0 v to 3.3v 0 v : max. gain 3.3v : min. gain
i/q output lpf cut off frequency (-3db)	4mhz to 40mhz, variable (2mhz step)
nominal i/q output level	0.6vp-p at 1kohm load impedance
nominal i/q output impedance	50
operating voltage	vcc : 3.3v ± 0.165v dc agc : 0~3.3v dc
absolute maximum rating voltage*	lnb : 25v dc 400ma max. vcc : -0.3~4.0v dc agc : -0.3~b2+0.3v dc sda, scl : -0.3~b2+0.3v dc
connection diagram	figure 4

note\*) breakdown voltage of each terminal is provided for in the state of nominal voltage.

attention item: this unit contains components that can be damaged by electro-static discharge. before handling this unit, ground your hands, tools, working desks and equipment to protect the unit from electronic static destroy.

mechanical specifications

dimension and mounting details      figure 5 and figure 6

f-connector strength: chassis must not be deformed at 0.98n\*m of the bending moment and must be connected electrically.

f-connector clamping torque: chassis must not be deformed when the nut is built at 0.98n\*m of the clamping torque and must be connected electrically.

environmental specifications

( electrical functional operation guarantee)

operating	temperature	-10 to +60
	humidity	less than 85%
storage		no condensation
	temperature	-25 to +85
	humidity	less than 95%
		water vapor pressure 6643pa max
		no condensation

[ a point to notice] please be careful that sudden temperature changes may cause condensation during storage, and such condensation may cause corrosion.

test condition:

supply voltage	vcc : 3.3v ± 0.1v dc
ambient temperature	25 ± 5
ambient humidity	65% ± 5%
i/q output level	0.6vp-p (at 1kohm load )

electical specifications

item	specification				condition
	min.	typ.	max.	uint	
noise figure		5	6	db	at agc voltage=0.1v
rf input vswr		2	2.5		900mhz to 2250mhz
gain deviation		7	10	db	900mhz to 2250mhz

agc control range	65	80		db	agc voltage: 0 to 3.3v	
3rd order inter modulation (2 tone)	40	60		db	input level is -25dbm  desired signal fo  undesired signal:  ( fo+38.36mhz,fo+76.72mhz)  or  (fo+38.36mhz,fo+76.72mhz)  lpf_fc=22mhz	
i/q phase balance	-	0.3	0.5	deg.		
i/q gain balance	-	0.2	0.5	db		
pass band flatness of bb lpf		5	7	db	input freq=900 to 2250 mhz	
local oscillator signalleak at rf input terminal		-68	-63	dbm	900mhz to 2250mhz	
phase noise	1khz offset		-85	-75	dbc/hz	measured at i/q out
	10khz offset		-100	-95	dbc/hz	
	100khz offset		-100	-105	dbc/hz	
pll lock up time		10	50	ms	within vt ± 5% vt is tuning voltage	
1st oscillator frequency error	-875		875	khz	-10 to 60	
current consumption	b2 3.3v		100	145	ma	
	b4 3.3v		20	45	ma	
	agc		± 0.1	± 1	ma	
clock out level	1.5	2.7		vpp	-10 to 60 (*1) measured by fet	
rf output vswr		2.0	2.5		900mhz to 2250mhz measured	
rf output gain	-5	0	5	db	at rf out	
clock out frequency error	-80	0	80	ppm	-10 to 60	

#### pin list

pin name	pin no.	pin description
Inbb	1	voltage supply of Inb b. please ground it with a 1000pf ceramic capacitor
Inba	2	voltage supply of Inb a. please ground it with a 1000pf ceramic capacitor
vcc	3	3.3v supply for tuner.  please keep a ripple at power supply
vcc	4	3.3v supply for tuner.  please keep a ripple at power supply
q out	5	base band output of tuner
i out	6	
agc	7	agc voltage input
sda	8	i <sup>2</sup> c-bus for pll ic.

scl	9	bus clock speed is 400khz maximum
clock out	10	27mhz output

"供应高频头DVB-S  
9XS11M-20"的是否提供加工定制为是，品牌是CDT，型号为CDT-9XS11M-20，种类是调谐器