Direction	PA (W)	G/T (dB/K)	G.S. (dBm)	S/C (dBm)									
Uplink	2.0 @ G.S.	-23.9	+45.9 EIRP	-104.5 Isotropic									
Downlink	1.0 @ S/C	-12.2	-119.8 Isotropic	+30.6 EIRP									
Bownink	1.0 @ 0,0	12.2	110.0 1001100110	100.0 EIKI	Linear Tech. L								
					60dB linear dyna 42mV/dB, Ic	= 7mA			Power Det	tection			
				10dB ↓	Shutdown = Log R		PA T _X (dBm)	Direction	VSWR I	RL (dB) I		DC Out (V)	
				[] ISUB }	Detect		0	FWD	-	-	-54	0.30	
				'			0	REV	1.10	26	-60	0.20	
				30dB	Log Ri	FDC _{FWD} (to M4)	+35	FWD	-	-	-19	1.75	
					Detecto	or Dorwy (to may	+35	REV	5.83	3	-2	2.45	
Canted Tu				Reverse Forward	 Enable								
Backpl SMPM/ _h	lane µStrip Loss: 0.41dB	Qorvo Q Loss: 0.2 Switch	PC1022	-24dB -24dB MiniCirc. BDCN-20-13+ Loss: 0.18dB Δt _{Fa} Linear Tech. Delay on falling Id = 7	Enable (high) FA FA FA FA FA FA FA FA FA F	rvo TQP7M9106 in: +26dB @ 436.5 MHz : 4.8dB = 850mA @ +33dBm ssed on 940MHz) utdown = ? mA 3dB? Enable (high - from Delay on ris Id = 70μA	. LTC6994-1 sing edge (F	c = high c = low (de	efault)	——Р	(ANTP1)- WRAMP- (ANTP/N): CLKP/N	Sensitivit MSK w/o MSK w/ F	(5043 sceiver y for 100kbps: FEC: -106 dBm FEC: -111 dBm
			MiniCirc. BPF- 400MHz - 51 Loss: 0.81dB @	0MHz	Qorvo TQP3M9036 Gain: 24dB NF: 0.38dB Ic = 45mA Shtdn = 2mA	Fc: BV	Aurata SF24 4435.0 MHz V: 10 MHz vsss: 1.9dB	46E				10 Eval: H Stability: +/- Phase Noise:	or Clipped SW 5.000 MHz ECS-TXO-3225 CMOS out -2.5 ppm (-30 to +85) -135dBc/Hz @ 1kHz
									7	70cm F	ront-Er	nd Transce	eiver on S/C
Notes: • All devices requiring power operate at 3.3V, except for the										Primary downlink & secondary uplink			
PA which requires 5V • For link models see GitHub (oresat-c3-rf/link-models)										Operating Freq: 435 - 438 MHz			
1 01 1111	11104613 366	om nuo (ores	at 55 H/IIIIK-HIOUEI	,						Date	e: 2019-0	06-21	Rev: 2.2