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	cal Specifications	
1.1	Transmit Section	
	IF Input Frequency Range	52MHz to 88MHz
	RF Output Frequency Range	5850MHz to 6425MHz
	(Blank)	
	Conversion Type	Dual
	Tuning Resolution	5.0 MHz steps
1.1.6	Frequency Stability	Locked to an external reference, 10MHz
		-10dBm to 0 dBm at IF input connector.
1.1.7	Phase Noise	-35 dBc/Hz max. at 10Hz (SSB)
		-65 dBc/Hz max. at 100Hz (SSB)
		-75 dBc/Hz max. at 1kHz (SSB)
		-80 dBc/Hz max. at 10kHz (SSB)
		-90 dBc/Hz max. at 100kHz (SSB)
	Spectrum Sense	Non Inverting.
	Output Power at 1dB G.C.P.	+39.5 dBm min. (Freq. & Temp.)
1.1.10	2tone 3rd Order Intercept Point	+47.5 dBm min. (Freq. & Temp.)
		Input Power; -33dBm / Each tone
1.1.11	(a) Small Signal Gain	+57 dB min., +63dB max. (Freq. & Temp.)
		(@ Tx IF : 52 to 88MHz)
	(b) Small Signal Gain Stability	2.5 dB _{P-P} (Temp., @ any fixed Freq.)
	(c) Small Signal Gain Flatness	4.0 dB _{P-P} max. over 575MHz band.
		(@fixed Temp.,@Tx IF 52 to 88 MHz)
		2.5 dB _{P-P} max. over 575MHz band.
		(@fixed Temp.,@Tx IF 70 MHz)
		2.5 dB _{PP} max. over any 36MHz band
		(@ Tx IF: 52 to 88MHz)
1.1.12	(Blank)	,
1.1.13	Group Delay Variation	50 nsec _{P-P} max. over any 36MHz
		(@ Tx IF :52 to 88MHz)
1.1.14	Spurious	-50 dBc max. within 20 MHz from carrier
		-55 dBc max. from the offset higher than 20 MHz
1.1.15	Noise Figure	18 dB max.
		(absolute minimum vs. Freq. & Temp.)
1.1.16	Harmonics	-55 dBc max.
		(absolute maximum vs. Freq. & Temp. for IF input
		power level from (1dB G.C.P. –10dB) up to 1dB G.C.P.)
	Image Rejection	55 dB min.
	(Blank)	
	IF Input Nominal Impedance	75 ohm
1.1.20	Return Loss In / Out	RF Output : 12dB min.
		IF Input : 12dB min.
	(Blank)	
1.1.22	AM to PM conversion	± 2 deg/dB @+37.5dBm
		 ≤ ±4 deg/dB @+38.5dBm
		= 5 <u>≤</u> ±5 deg/dB @+39.5dBm
1.1.23	Stability	The RFT Tx section should not be made unstable
		or damaged with any combination of input/output
		loading, including short- or open- circuit with or without
		input power up to maximum allowed input power. This
		statement shall hold true at any frequency.
1.1.24	Out of Band Gain	Should be not higher than in-band gain should
,		monotonically decrease as a function of the absolute
		frequency difference from band edges.
		At 5650MHz and 6625MHz points, the gain should be
		lower by 2.0dB min. than minimum in band gain.
TITLE:		DRAWING No. Rev.
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		C-band 10W Transceiver PAGE 1

1.2	Receive Section		
1.2.1	RF Input Frequency Range	3625MHz to 4200MHz	
1.2.2	IF Output Frequency Range	52MHz to 88MHz	
	RF Power Input Level		
1.2.0	Per Carrier	-120 dBm min.	
	i di Gairiei	-100 dBm max.	
	Mariti Camian		
	Multi Carrier_	-75 dBm max.	
	Conversion Type	Dual	
	Tuning Resolution	5.0 MHz steps	
1.2.6	Frequency Stability	Locked to an external reference, 10MHz,	
		-10dBm to 0 dBm at IF input connector.	
1.2.7	Phase Noise	-35 dBc/Hz max. at 10Hz (SSB)	
		-65 dBc/Hz max. at 100Hz (SSB)	
		-75 dBc/Hz max. at 1kHz (SSB)	
4.0.0	0 1 0	-90 dBc/Hz max. at 100kHz (SSB)	
	Spectrum Sense	Non inverting.	
	Output Power at 1 dB G.C.P.	+15 dBm min. (vs. Freq. & Temp.)	
1.2.10	2 tone 3rd Order Intercept Point	25 dBm min. (vs. Freq. & Temp.)	
		Input Power; -63 dBm / Each tone	
1.2.11	(a) Small Signal Gain	61.5 dB min. (vs. Freq. & Temp.)	
	(c) Critish Cigital Calli	68.5 dB max. (vs. Freq. & Temp.)	
		(@ Rx IF : 70MHz)	
	(b) Small Signal Gain Stability	2.0 dB _{P-P} max. (Temp, @ any fixed Freq.)	
			! T \
	(c) Small Signal Gain Flatness	5.0 dB _{P-P} max. over 575MHz band. (@ fix	ea remp.)
		(@ Rx IF : 52 to 88MHz)	
		4.0 dB _{P-P} max. over 575MHz band.	
		(@ fixed Temp., Rx IF: 70Mh	Hz)
		3.0 dB _{P-P} max. over any 36MHz band.	,
		(@ fixed Temp., Rx IF: 52 to	88MHz)
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	Group Delay Variation	50 nsec _{P-P} max. over any 36MHz BW	
		•	
	Spurious	-40dBc max.	
	Noise Figure	0.9dB max. vs. Frequency @+25°C Amb	
1.2.16	Harmonics	-50dBc max. vs. Temp., DC Supply voltag	je
		& RF Input Power at any Frequency	
1.2.17	Image Rejection	50 dB min.	
1.2.18	IF Output Nominal Impedance	75 ohm	
1.2.19	Return Loss		
	RF Input (VSWR)	6 dB min. (vs. Freq. And Temp.)	
	IF Output	12 dB min. (vs. Freq. And Temp.)	
1 2 20	AM to PM conversion	2 deg/dB max.	
_		The RFT Rx section should not be made	unotoblo
1.2.21	Stability		
		or damaged with or without any combinat	
		of input / output loading, including short- o	
		open- circuit with or without input power u	
		the maximum allowed input power. This st	atement
		shall hold true at any temperature.	
1.2.22	Out of Band Gain	Should be not higher than in-band gain an	d should
		monotonically decrease as a function of a	
		frequency difference from band edges.	aboorato
		nequency difference from band edges.	
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C-band 10W Transceiver

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	NJT5635	C-band 10W Transceive	r PAGE 3
TITLE:		DRAWING No.	Rev. 1.
1.8	DBS Output	 Thermal Runaway (Temperature Not Applicable 	Sensor etc.)
1.7	Protections	Transceiver Address Reset (System) Included Protections: • Reverse Voltage Protection (Ser • Over Current (Serial Fuse)	,
	Control:	PLL#1 Fault (L band Local OSC f PLL#2 Fault (C band Synthesized PLL#3 Fault (L band Local OSC f PLL#4 Fault (Reference Recover Tx / RX Frequency Tx Mute	l Local OSĆ) or Rx chain)
	Faults :	Revision Number Temperature Frequency Channel M & C Communication DC Input Voltage High Temperature Fault	
1.6.2 1.6.3 1.6.4 1.6.5 1.6.6	Transmit Amplitude (to IDU) Receive Amplitude Baud Rate	-10 dBm ± 3dB -20dBm to 0dBm at IF Rx output 0 2400 Baud ± 2% Output Power Monitor Tx Mute	Connector
1.6 1.6.1 1.6.2	Control & Status Modulation	Half duplex on / off keying (OOK) 250 kHz ± 25kHz	
1.5	Lightning Protection The unit should withstand a +/- 5kV of in every 10 seconds.	put surge, 1.2 μ sec Rise / Fall time, 5	0 μ sec duration,
1.4	Electrostatic Discharge The unit should withstand a +/- 15kV suresistor, four times, at optionally selecte	• • • • • • • • • • • • • • • • • • • •	via a 150 ohm
1.3 1.3.1 1.3.2 1.3.3	Voltage	Tx IF Connector (F type Female) -36V to -60V DC 150W max.	

2. Mec 2.1	hanical Specifications Outline	see attached Outline Drawings	
2.2	Weight	15.0 kg max.	
2.3	Surface Finish a. Alodyne treatment b. Basic Paint c. Finish Paint d. Color	Alodyne #1200 Epoxy Epoxy White (Approximate N-9.5; Munsell Colo	r System)
2.4 2.4.1	Connectors Tx IF Input, Reference and DC Power Rx IF Output / M&C	F-female F-female (Inside diameter of contact to mee characteristics and connector dura with a 0.8mm ± 0.05mm diameter)	ability when mated
2.4.2	Tx RF Output Rx RF Input	N-female(50ohm) WR229 (CPR229G)	naio demada,
TITLE:		DRAWING No.	Rev.
TITLE:	NITECOE	DRAWING No.	Rev. 1.
NJT5635		C-band 10W Transceiver PAGE 4	

Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. Operating Temperature -40 to +60 Storage Temperature -50 to +80 Nititude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. Vibration (All 3 axis) Non Operating 1mm _{P-P} constant © 5Hz to 50Hz 5G constant © 50Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.		3. En	vironmental Specifications			
Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. Operating Temperature -40 to +60 Storage Temperature -50 to +80 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. Wibration (All 3 axis) Non Operating 1mm _{P-P} constant © 5Hz to 50Hz 5G constant © 50Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	3.1 (Blank)	3.1	(Blank)			
Storage Temperature Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. Wibration (All 3 axis) Non Operating 1mm _{P-P} constant 95Hz to 50Hz 5G constant 95Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.		3.2			iring and after exposure to any	
Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. I/ibration (All 3 axis) Ion Operating 1mm _{P-P} constant 95Hz to 50Hz 5G constant 950Hz to 500Hz Mechanical Shock (All 3 axis) Ion Operating 30G, saw tooth wave form, 11msec duration.		3.2.1	Operating Temperature	-40 to +60		
The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. Vibration (All 3 axis) Non Operating 1mm _{P-P} constant 95Hz to 50Hz 5G constant 950Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	 3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 		5 1	-50 to +80		
The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. Vibration (All 3 axis) Non Operating 1mm _{P-P} constant 95Hz to 50Hz 5G constant 950Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	 3.2 Environmental Service Conditions	3.2.3		ometric pressure rand	ging from sea level to 10 000 ft	
The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited a sealed units. /ibration (All 3 axis) Non Operating 1mm _{P-P} constant 65Hz to 50Hz 5G constant 65Hz to 50Hz 65Hz to 500Hz 76Hz 3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude						
/ibration (All 3 axis) Non Operating 1mm _{P-P} constant 5G constant 05Hz to 50Hz 5G constant 050Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude	3.2.4	Fungus The unit shall be designed to meet requirem	nent 4 of MIL-STD-45	54. Test method will be limited	
Inm _{P-P} constant @5Hz to 50Hz 5G constant @5Hz to 50Hz 6Chanical Shock (All 3 axis)	 3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. 3.2.4 Fungus 		to sealed units.			
5G constant @50Hz to 500Hz Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. 3.2.4 Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units.	3.2.5		1mm constant	@5Uz to 50Uz	
Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	 3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. 3.2.4 Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. 3.2.5 Vibration (All 3 axis) 					
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Cooling	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. 3.2.4 Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. 3.2.5 Vibration (All 3 axis) Non Operating 1mm _{P-P} constant @ 5Hz to 50Hz 5G constant @ 50Hz to 500Hz 3.2.6 Mechanical Shock (All 3 axis)	227		30G, saw tooth wave	e form, 11msec duration.	
The unit should be hermetically sealed (connectors, covers, etc.) against rain, wind dust, salt air and humidity levels from 0% to 100%. Sealing design should also avoid moisture absorption within	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. 3.2.4 Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. 3.2.5 Vibration (All 3 axis) Non Operating 1mm _{P-P} constant ©5Hz to 50Hz 5G constant ©50Hz to 500Hz 3.2.6 Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration.	3.2.1				
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360 BTU / hour / square foot horizontal surface.	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. 3.2.5 Vibration (All 3 axis) Non Operating 1mm _{P-P} constant © 5Hz to 50Hz 5G constant © 50Hz to 500Hz 3.2.6 Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration. 3.2.7 Sealing The unit should be hermetically sealed (connectors, covers, etc.) against rain, wind dust, salt air and humidity levels from 0% to 100%. Sealing design should also avoid moisture absorption within the unit. 3.2.8 (Blank) 3.2.9 Solar Heat Load 360 BTU / hour / square foot horizontal surface.	3.2.10		moopt natara. Would	or (rain etc.)	
360 BTU / hour / square foot horizontal surface. No cleaning treatment of units is available except natural weather (rain etc.)	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. 3.2.5 Vibration (All 3 axis) Non Operating 1mm _{P-P} constant ©5Hz to 50Hz 5G constant ©50Hz to 500Hz 3.2.6 Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration. 3.2.7 Sealing The unit should be hermetically sealed (connectors, covers, etc.) against rain, wind dust, salt air and humidity levels from 0% to 100%. Sealing design should also avoid moisture absorption within the unit. 3.2.8 (Blank) 3.2.9 Solar Heat Load 360 BTU / hour / square foot horizontal surface. No cleaning treatment of units is available except natural weather (rain etc.)		5 inches per hour with wind to 50 mph, gust	s to 65 mph.		
360 BTU / hour / square foot horizontal surface. No cleaning treatment of units is available except natural weather (rain etc.) Rainfall	3.2 Environmental Service Conditions Unless otherwise stated the unit should perform as specified, during and after exposure to any combination of the environmental conditions detailed herein. 3.2.1 Operating Temperature -40 to +60 3.2.2 Storage Temperature -50 to +80 3.2.3 Altitude The operating device should withstand barometric pressure ranging from sea level to 10,000 ft. The non-operating device should withstand barometric pressure ranging from sea level to 50,000 ft. Fungus The unit shall be designed to meet requirement 4 of MIL-STD-454. Test method will be limited to sealed units. 3.2.5 Vibration (All 3 axis) Non Operating 1mm _{P-P} constant ©5Hz to 50Hz 5G constant ©50Hz to 500Hz 3.2.6 Mechanical Shock (All 3 axis) Non Operating 30G, saw tooth wave form, 11msec duration. 3.2.7 Sealing The unit should be hermetically sealed (connectors, covers, etc.) against rain, wind dust, salt air and humidity levels from 0% to 100%. Sealing design should also avoid moisture absorption within the unit. 3.2.8 (Blank) 3.2.9 Solar Heat Load 360 BTU / hour / square foot horizontal surface. No cleaning treatment of units is available except natural weather (rain etc.)					
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