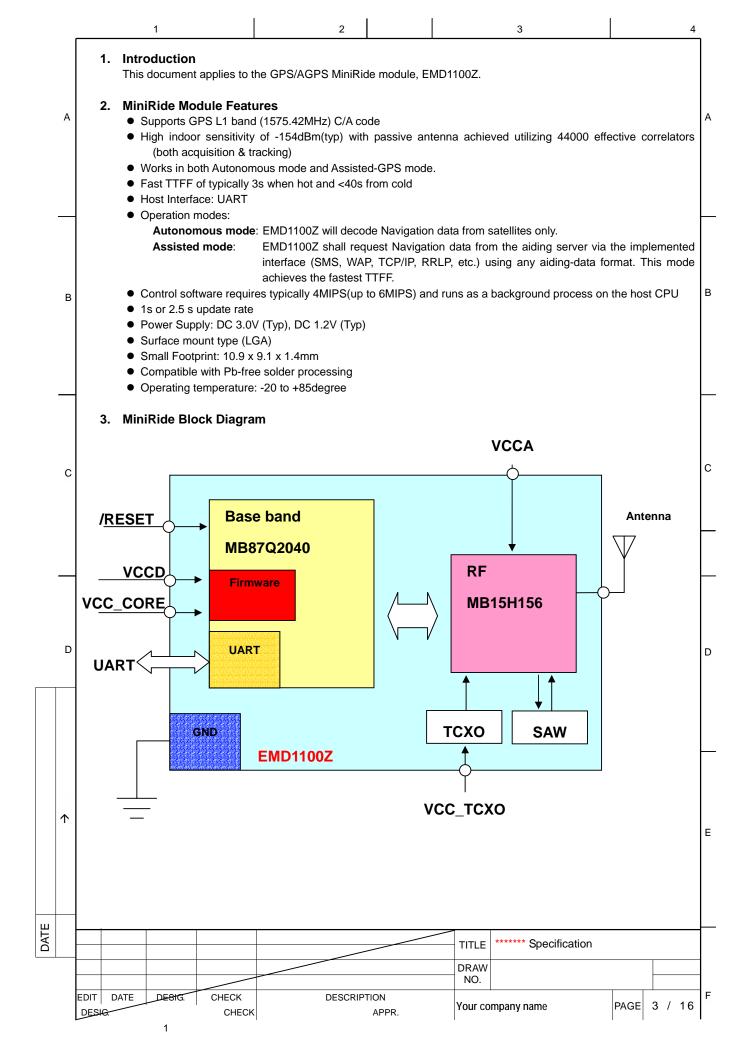


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4. Electrical Characteristics

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4-1. Absolute Maximum Rating

Items	Symbol	Value	Unit				
Supply Voltage	VCC	-0.5 ~ 1.8 (*1) -0.5 ~ 4.0 (*2)	V				
Input Voltage	Vin	-0.5 ~ VCC+0.5 (<u>≤</u> 1.8V) (*1) -0.5 ~ VCC+0.5 (<u>≤</u> 4.0V) (*2)	V				
Output Voltage	Vout	-0.5 ~ VCC+0.5 (<u>≤</u> 1.8V) (*1) -0.5 ~ VCC+0.5 (<u>≤</u> 4.0V) (*2)	V				
Storage Temperature	Tstg	-40 ~ +85	°C				

*1 VCC_CORE

*2 VCCD, VCC_TCXO, VCCA

4-2. Recommendable Operating Condition

Items	Symbol	Min	Тур	Max	Unit			
Supply Voltage	VCCD	2.7	3.0	3.3	V			
	VCC_TCXO	2.85	3.0	3.15	V			
	VCCA	2.7	3.0	3.3	V			
	VCC_CORE	1.15	1.2	1.25	V			
Operating Temperature	T_opr	-20	25	85	°C			

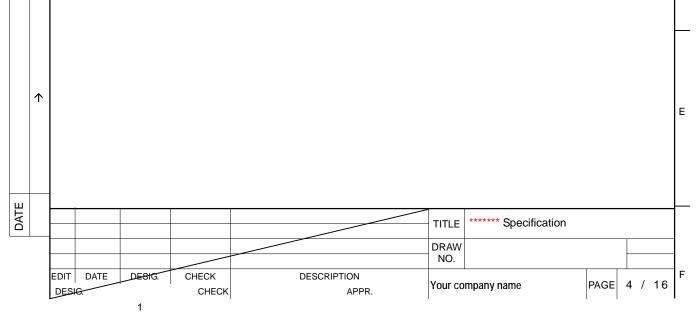
4-3. I/O terminal characteristics

VCCD1=2.7~3.3V, VCC_CORE=1.15~1.25V, GND=0V

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Input	VIL	-	- 0.3	-	0.8	V
input	VIH	-	2.0	-	VCCD1+0.3	V
Quitouit	VOL	3.3V output IOL=100uA	0	-	0.2	V
Output	VOH	3.3V output IOH=-100uA	VCCD1-0.2	-	VCCD1	V

4-4. Power Consumption

VCCD1, 2, A=3.0V, VCC_CORE=1.2V, GND=0V Mode Min Max Unit Тур 180 Searching satellites 230 mW -Satellites tracking after a fix -120 180 mW Deep Power down mode Without control of TCXO supply power -6 10 mW



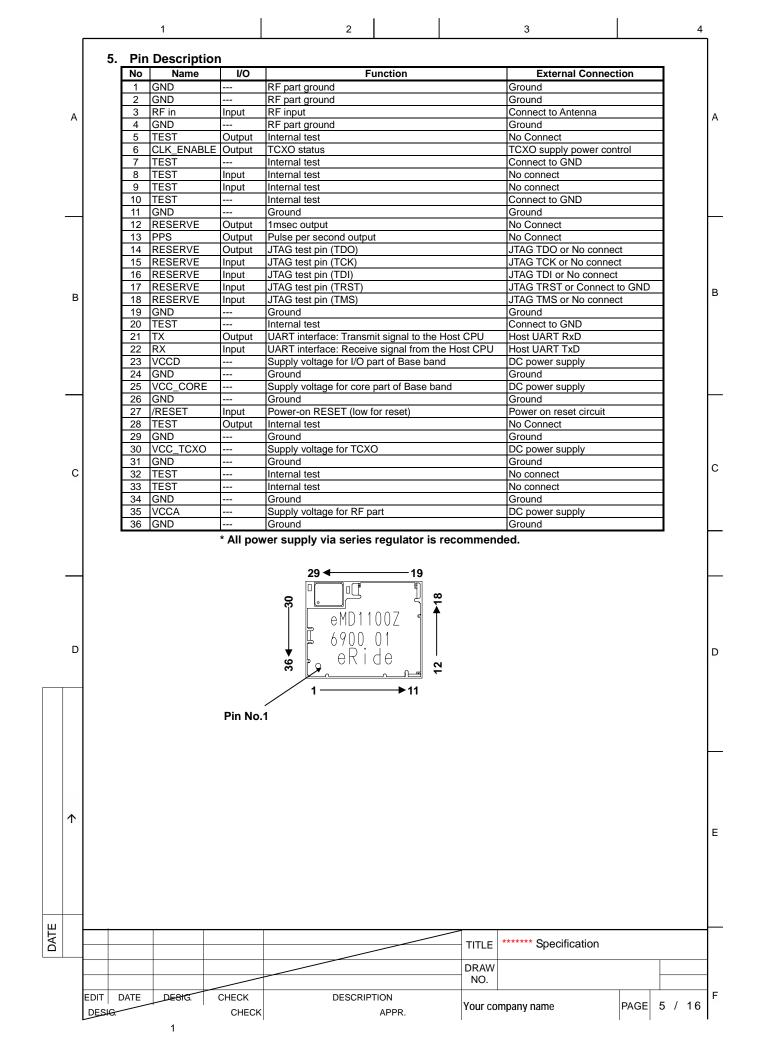
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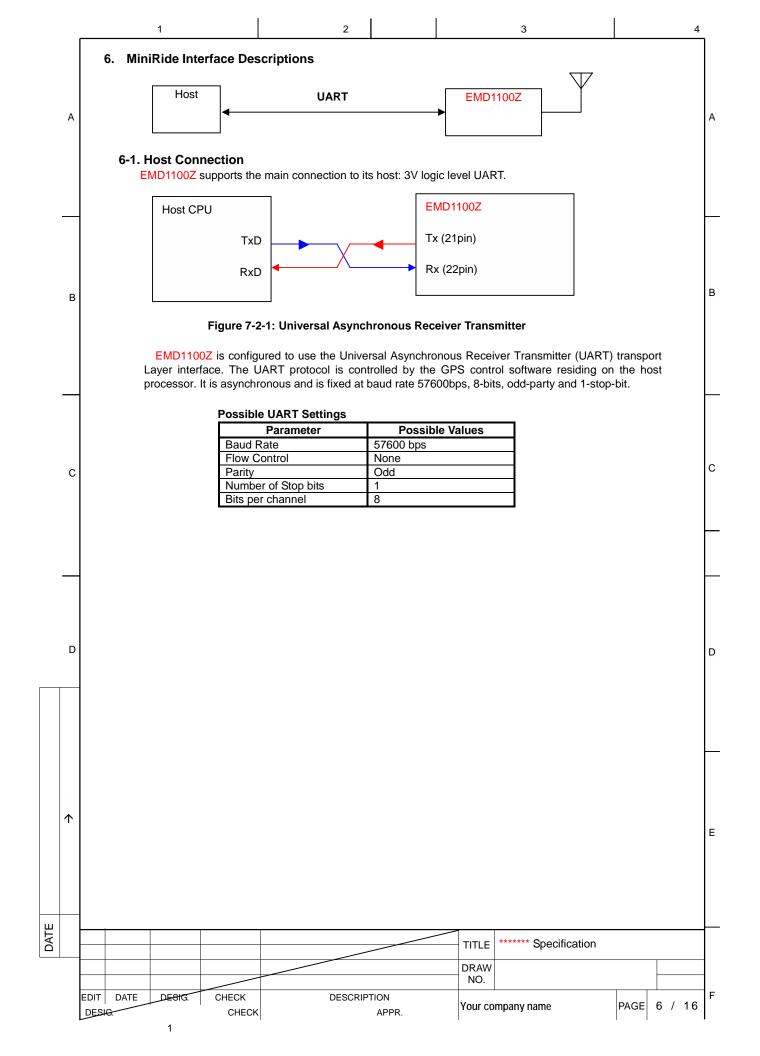
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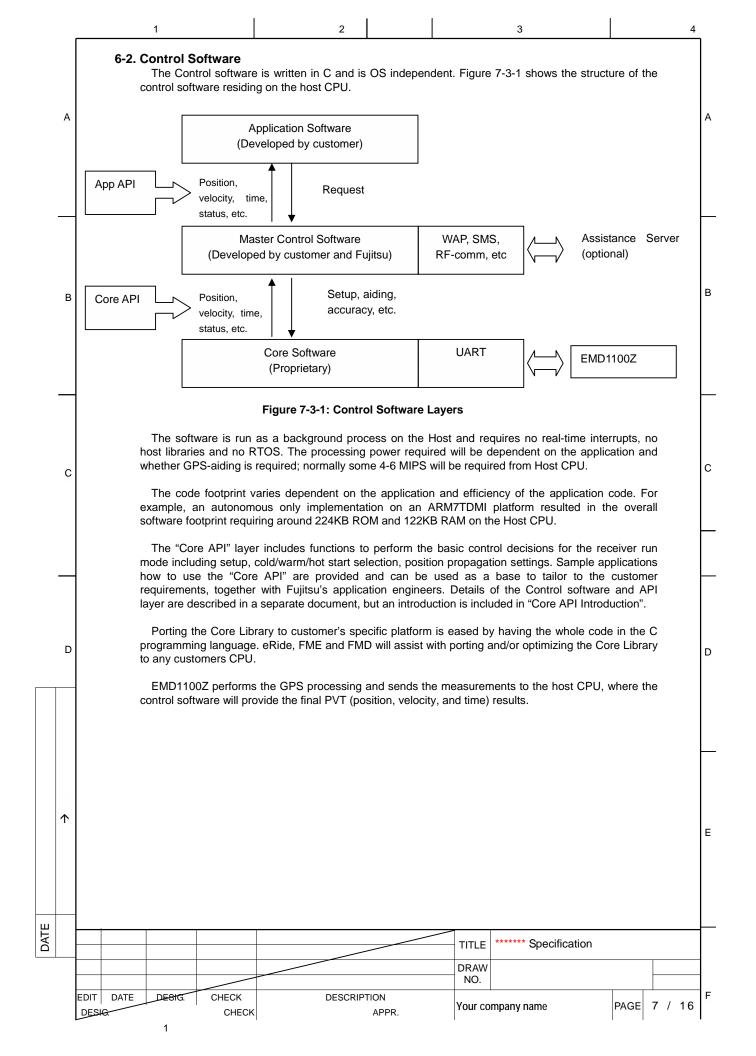
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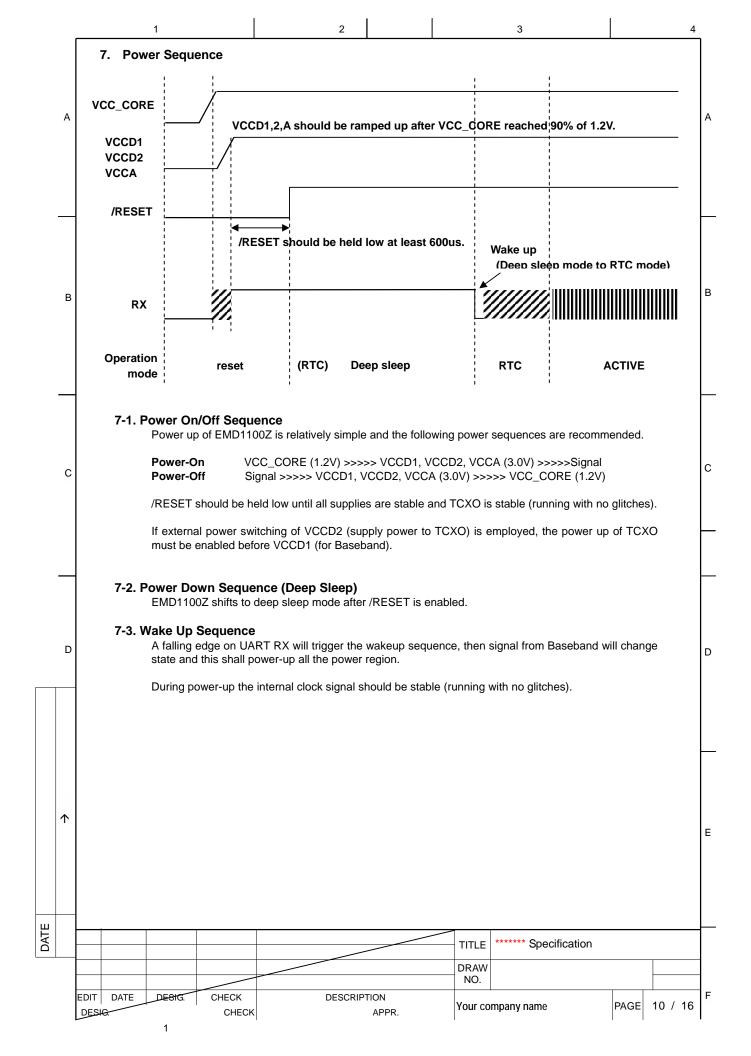


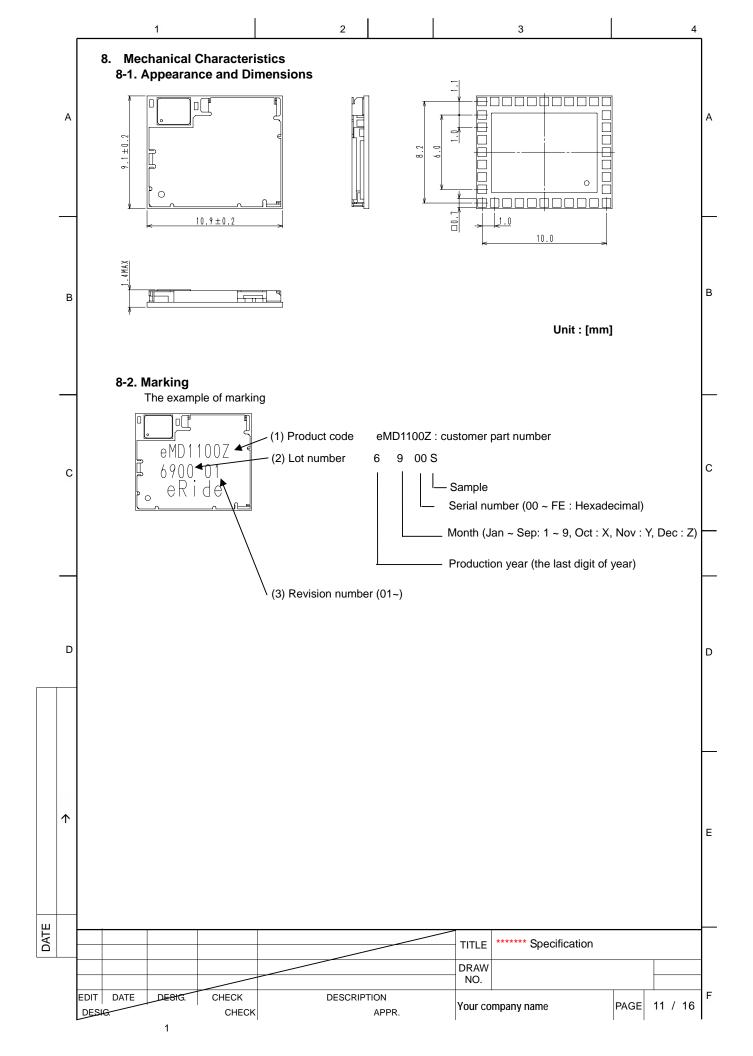


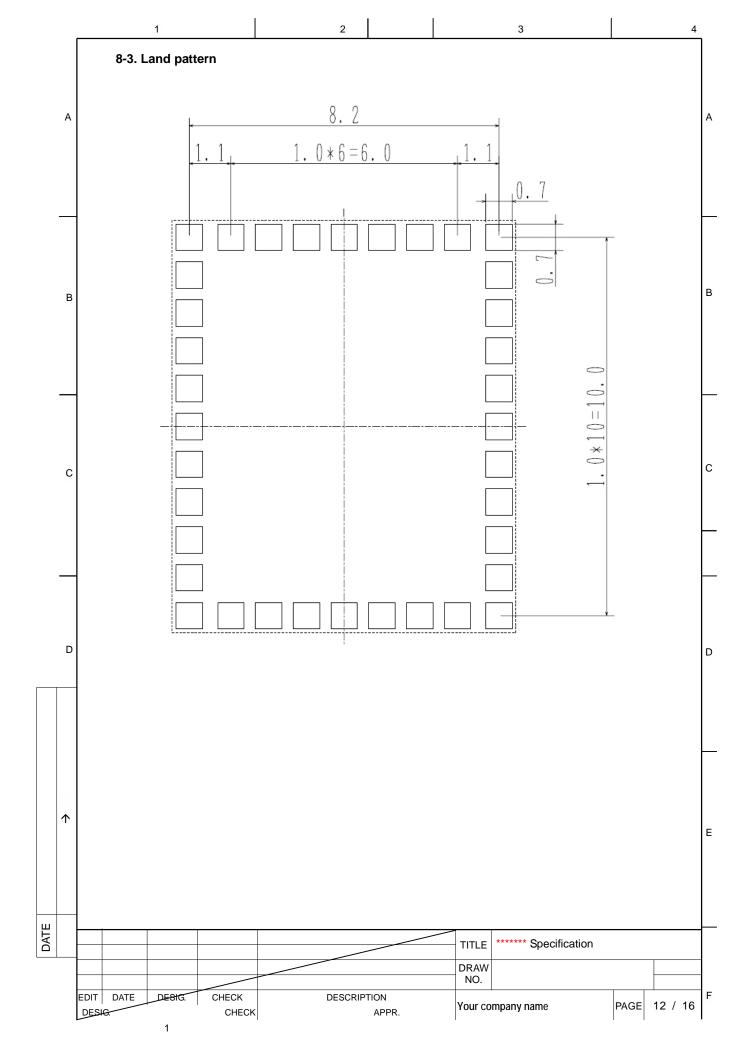


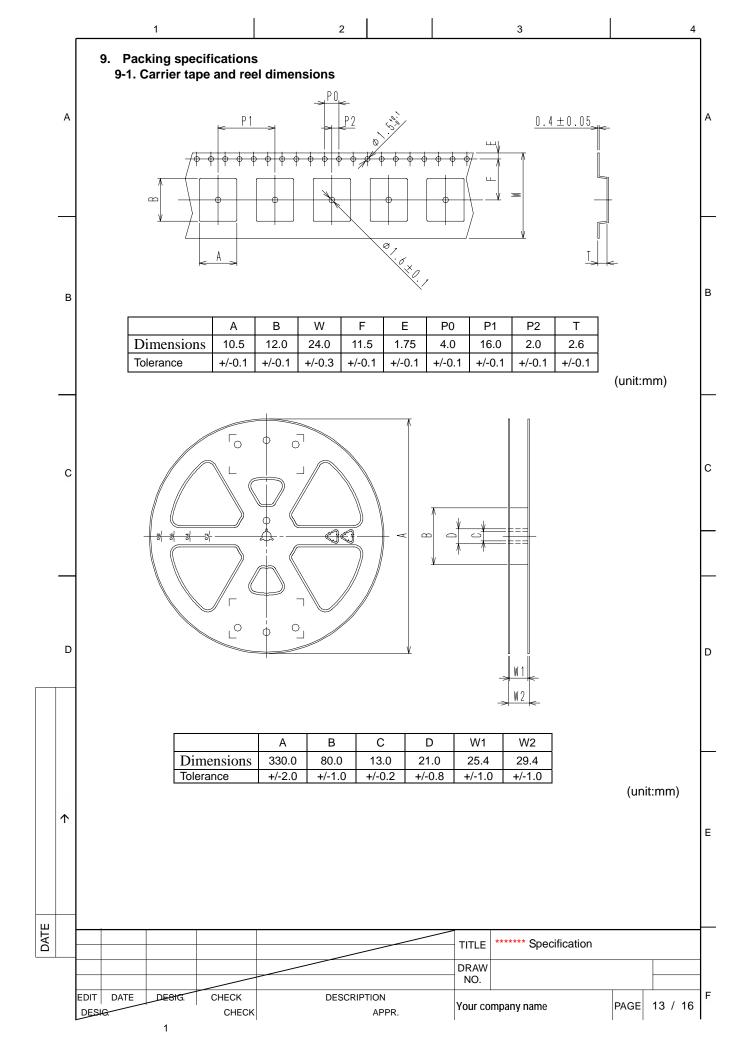
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	A	logic will be described during development. The Core Library pr facility is called the "M debug port, which is av In addition, the Core	rovides a facility to pu luxdem" feature. It rec vailable for the PC. Library allows sending	e Library suppo t out GPS dia quires a diagno g out own debug	s EMD1100Z. A summary orts two mechanisms, whi gnostic data via a debug ostic data collector on the g messages using the san the following external func	ch aid debugging UART port. This other end of the ne UART port.	А
	В	 sending of data sending of data sending out of a sleeping for a c This functionality ne callbacks. 	ertain time eds to be provided by	ed to the EMD1 ed to the debug	100Z	e Core Library via	В
	с	 Optional config Application cal feature is requi Application call During operation stored in its but The application EMD1100Z page If new data is 	Is "erSetMxMode()" w red). s "erGpsStart()" which on the EMD1100Z send ifer. n calls "erGpsCoreT cket is available.	be set (e.g. po ith the require initializes the G ds bytes, which ask()" which cation calls "e	sition outage propagation) d mode (this can be OF GPS. are received by the UAR attempts a position fix erGetPvt()" (and similar	F if no Muxdem F Rx interrupt and if complete the	c
		Application forrApplication cal	nats and outputs availa ls "erGpsStandby()" to shutdown the EMD110	able information to turn the EM	n in required form (e.g. NM D1100Z into RTC standl rer off. NV data buffer nee	by mode or calls	
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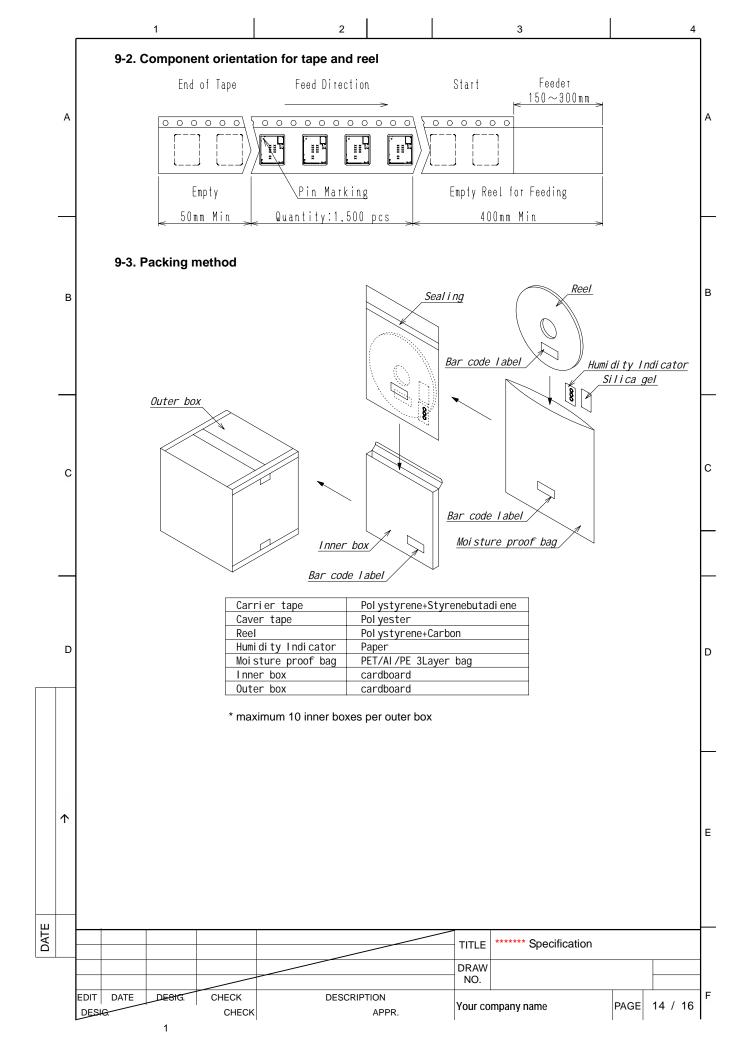
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A	The OSM r	e Machine (OSN manages all the petween the hardy	code-delays/free		hypothesis	generation and corre	lation and	I
		State Machine (fers 3 modes of c						
	searchi		o a sensitivity o			ion and tracking block (integration time) and -		
в	without	intervention from	the Host CPU.			tellites, with -145 dBm navigational data and	-	
	synchro		ents so that GP			lata can be decoded a		
	several time	e/frequency hypo	otheses, or sea	rch thousand	ls of time/f	le to either search 32 s requency hypotheses leses) are configurable	for a few	/
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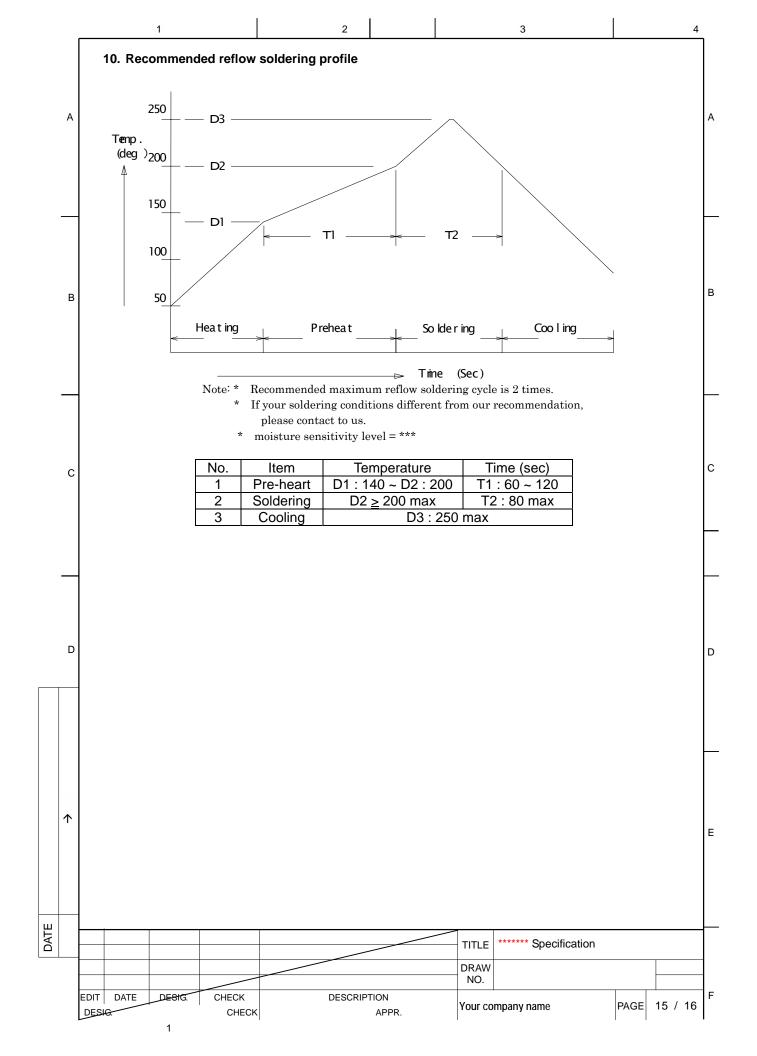












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		11. Version H	istory						
		ν	/ersion	Conte	nts Change	Date			
	A		01 F	irst Edition		2005.07.29	-	A	
			1.1 A	dd recommend foot pr	int	2005.10.31	-		
			1.2 A	dd 8-1. Dimensiona 9. Packing spe		2005.11.22	-		
			1.21 S	Sensitivity value (P.3 Fe	ature)		2006.01.11	-	
	В		1.22 V	Sensitivity (P.3 feature) /CCD2 => VCC_TCXO Pin description No.27(re)	e antenna	2006.01.18		в
			1.23 A	Active antenna => pass	ive antenna (P	P3. Feature)	2006.01.19		
			1.23e F	or eRide (delete the lo	go etc)		2006.08.15	-	
			1.24e 1	-4. add maximum pow 0. add moisture sensiti -2. change Marking (P	ivity level	n value	2006.09.19		
			1.25e 8	-2. correct marking spe	ec (sample coo	de)	2006.09.20		
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