

char[0 to 18]	S, V, X, I, I, Op_Mode, V_Cell_1, V_Cell_2, T_Cell, T_DSP, T_BSP, CH_STAT_1, CH_STAT_2, T_1, T_2, ANTS_DPL_STAT, T_3, Mode_1, Mode_2
char[0 to 4]	SVXII
char[5]	Operating Mode (Op_Mode), usually 2
char[6]	Battery Cell Voltage (V_Cell_1)
char[7]	Battery Cell Voltage (V_Cell_2)
char[8]	Average Battery Cell Temperature (T_Cell)
char[9]	Average Deployable Solar Panel Temperature (T_DSP)
char[10]	Combined Body Solar Panel Temperature (T_BSP)
char[11]	Channel status 1, usually Z
char[12]	Channel status 2, usually 6
char[13]	Temperature sensor 1
char[14]	Temperature sensor 2
char[15]	AntS Deployment status (ANTS_DPL_STAT), all antennas deployed, always Z
char[16]	Temperature sensor 3
char[17]	Control mode 1
char[18]	Control mode 2

Telemetry characters	2, 4, 6, 7, 8, A, C, D, F, G, J, L, P, Q, Y, Z
CW rate	100 words/min
TX time (s)	18 ~ 20
Interval (min)	1 to 4

Char [9]

"2"	$X \leq -40\text{ }^{\circ}\text{C}$
"4"	$-39\text{ }^{\circ}\text{C} \leq X \leq -33\text{ }^{\circ}\text{C}$
"6"	$-32\text{ }^{\circ}\text{C} \leq X \leq -26\text{ }^{\circ}\text{C}$
"7"	$-25\text{ }^{\circ}\text{C} \leq X \leq -19\text{ }^{\circ}\text{C}$
"8"	$-18\text{ }^{\circ}\text{C} \leq X \leq -12\text{ }^{\circ}\text{C}$
"A"	$-11\text{ }^{\circ}\text{C} \leq X \leq -5\text{ }^{\circ}\text{C}$
"C"	$-4\text{ }^{\circ}\text{C} \leq X \leq 2\text{ }^{\circ}\text{C}$
"D"	$3\text{ }^{\circ}\text{C} \leq X \leq 9\text{ }^{\circ}\text{C}$
"E"	$10\text{ }^{\circ}\text{C} \leq X \leq 16\text{ }^{\circ}\text{C}$
"G"	$17\text{ }^{\circ}\text{C} \leq X \leq 23\text{ }^{\circ}\text{C}$
"J"	$24\text{ }^{\circ}\text{C} \leq X \leq 30\text{ }^{\circ}\text{C}$
"L"	$31\text{ }^{\circ}\text{C} \leq X \leq 37\text{ }^{\circ}\text{C}$
"P"	$38\text{ }^{\circ}\text{C} \leq X \leq 44\text{ }^{\circ}\text{C}$
"Q"	$45\text{ }^{\circ}\text{C} \leq X \leq 51\text{ }^{\circ}\text{C}$
"V"	$52\text{ }^{\circ}\text{C} \leq X \leq 59\text{ }^{\circ}\text{C}$
"Z"	$X \geq 60\text{ }^{\circ}\text{C}$

Char [10]

Char	T_BSP_Y-	T_BSP_Y+
"2"	$X \leq -40\text{ }^{\circ}\text{C}$	$X \leq -40\text{ }^{\circ}\text{C}$
"4"		$-39\text{ }^{\circ}\text{C} \leq X \leq 9\text{ }^{\circ}\text{C}$
"6"		$10\text{ }^{\circ}\text{C} \leq X \leq 59\text{ }^{\circ}\text{C}$
"7"		$X \geq 60\text{ }^{\circ}\text{C}$
"8"	$-39\text{ }^{\circ}\text{C} \leq X \leq 9\text{ }^{\circ}\text{C}$	$X \leq -40\text{ }^{\circ}\text{C}$
"A"		$-39\text{ }^{\circ}\text{C} \leq X \leq 9\text{ }^{\circ}\text{C}$
"C"		$10\text{ }^{\circ}\text{C} \leq X \leq 59\text{ }^{\circ}\text{C}$
"D"		$X \geq 60\text{ }^{\circ}\text{C}$
"E"	$10\text{ }^{\circ}\text{C} \leq X \leq 59\text{ }^{\circ}\text{C}$	$X \leq -40\text{ }^{\circ}\text{C}$
"G"		$-39\text{ }^{\circ}\text{C} \leq X \leq 9\text{ }^{\circ}\text{C}$
"J"		$10\text{ }^{\circ}\text{C} \leq X \leq 59\text{ }^{\circ}\text{C}$
"L"		$X \geq 60\text{ }^{\circ}\text{C}$
"P"	$X \geq 60\text{ }^{\circ}\text{C}$	$X \leq -40\text{ }^{\circ}\text{C}$
"Q"		$-39\text{ }^{\circ}\text{C} \leq X \leq 9\text{ }^{\circ}\text{C}$
"V"		$10\text{ }^{\circ}\text{C} \leq X \leq 59\text{ }^{\circ}\text{C}$
"Z"		$X \geq 60\text{ }^{\circ}\text{C}$