Regulation System Connection Wire Diagram



Regulator Features:

- Regulation : B Circuit
- Standby mode
- Leakage current control
- Default modeLIN (COM) mode
- 9600 & 19200 Baud Rate (4byte)
- Variable Voltage setting
- Field out duty monitor
- Temperature & Field current

PARAMETERS AND CONDITIONS	SPEC	Min.	Min. Type Max.		SYMBOLS
Operating Temperature	Operating Temperature	-30		125	ဗ
Switch OFF Leakage Current	Ps < 800rpm , BSS = Low , B+=12.0V				mA
	Default Mode	14.10	14.30	14.50	V
Regulator Set Point	Defined by external ECU/BSS command.	10.6		16.0	V
Output Saturation Voltage	I F = 5A			0.8	V
Field Current Limit	F shorted to ground	10			A
Field Control Frequency	10% < duty cycle < 95%	180	200	220	Hz
Error Display High Temp. Protection Threshold on board(substrate)	Field output OFF		160		c
Self Drive Initiation rpm Threshold	Safe mode Frequency given according to the programmed number of generator poles	2550	3000	3450	rpm

Safety Characteristics:

- > Over voltage: Vs = 24 V, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- Short Circuit Protection: The regulator shall stand short circuit on Field without failure and return normal operation within 2 seconds once short condition is removed.
- ➤ Repetitive Thermal Shock: The Regulator shall be designed to withstand 500 cycles of -30°C to 125°C in $\hat{2}0$ minutes and 125° C to -30° C in $\hat{2}0$ minutes.
- > High Temperature Test: The regulator shall be designed to operate reliably at the load from 80% to 100% of the alternator rated current and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125 °C.

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