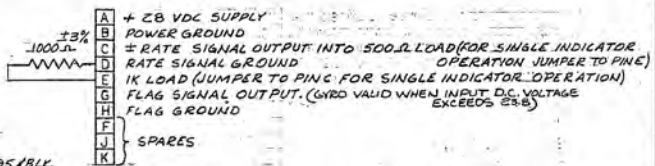


3. UPON SUCCESSFUL COMPLETION OF FINAL ATP, DATE OF MANUFACTURE TO BE STAMPED IN APPROXIMATE POSITION SHOWN USING INDELIBLE WHITE INK IN LETTERS AT LEAST .125 INCHES TALL.
4. DO NOT HANDLE UNIT AWAY FROM AN ESD PROTECTED AREA WITHOUT AN ESD CONDUCTIVE CIRCULAR CONNECTOR COVER IN PLACE.
7. INSTALLATION INFORMATION SHOULD BE PROVIDED IN OPERATION HANDBOOK OR DECAL ON INSTRUMENT PANEL TO READ: CAUTION: AT MINUS 30°C AFTER APPLICATION OF RATED POWER INSTRUMENT PERFORMANCE WILL BE REACHED IN 8 MINUTES MAXIMUM.
6. WHEN THE TRANSMITTER IS ROTATED TO THE RIGHT IN THE SAME MANNER THAT AN AIRCRAFT WITH THE TRANSMITTER PROPERLY INSTALLED WOULD BE RETURNED TO THE RIGHT, THE POLARITY OF PIN C SHALL BE POSITIVE.
5. THE RESISTANCE BETWEEN PIN A AND G SHALL NOT EXCEED 4000 Ω. WHEN GYRO OUTPUT IS VALID, THE VOLTAGE BETWEEN PIN G AND PIN H SHALL NOT EXCEED 4 VDC. WHEN GYRO OUTPUT IS INVALID, THE PERFORMANCE/DESIGN AND QUALIFICATION REQUIREMENTS OF THIS TRANSMITTER SHALL MEET SPECIFICATION TSO-C36 AND BELL HELICOPTER DRAWING 214-075-244-1.
3. MARK BELL PART NUMBER AND VENDORS NAME, TRADEMARK, AND PART NUMBER, DATE OF MANUFACTURE, SERIAL NUMBER, WEIGHT AND TSO-C36 ON NAMEPLATE.
2. PAINT COVER WITH MEDIUM WEARABLE BLACK PAINT, COLOR 37038 PER FED. STD. 595 18L. ANODIZ E BASE PER MIL-A-8625B, TYPE II, CL. 2.
1. LOCKWIRE PER MS 33540.
- NOTES:



SCHEMATIC

REVISIONS				
ZONE	LTG	DESCRIPTION	DATE	APPROVED
A	ECO	ADD	6/17/82	J.R./R.B.
B		1) NAMEPLATE WAS G331/ SUMMARY, DRUF DS. 0807 2) CORP. NAME & LOGO WAS INCLD. - RES / DRPRT	6-6-89	R.H./R.B.
C		1) ADDED NOTE A & CALL OUT TO FIELD OF DRAWING 2) ADDED NOTE TO LABEL AREA. 3) ADDED UNCLDGD ALLOWANCE FOR ESD CAP TO WEIGHT 4) WEIGHT 2.53 WAS 2.5.	10-24-89	EX, M/S/O
D		1) ADDED ESD LABEL TO TOP VIEW 2) POINTS HART AXIS LABEL ON TOP VIEW 3) ADDED ORIENTATION ARROWS TO SIDE VIEW	12-11-89	R.H./R.B.
E		CHANGES PER DCR # 02201 1) ADDED NOTE A & CALL OUT 2) ADDED ENGINEER APPROVAL SIGNATURE IN TITLE BLOCK	4-24-91	K.H., B.M.P., G.E.B., T.H.S.

Check for REVISIONS to this drawing

SPECIFICATION FOR: RATE TRANSMITTER, 28 VDC
(MAXIMUM RATE OF TURN 380°/MIN. ± 20°/MIN.)

POWER CONSUMPTION:	MIN.	MAX.	UNITS
VOLTAGE RANGE	23.8	32.2	VDC
CURRENT RANGE		.5	AMPS

CHARACTERISTICS:

START TIME (FULL OPERATING SPEED)		3	MIN.
OUTPUT SIGNAL: 0°/MIN.		40	MV
(500 Ω LOAD) 90°/MIN.	435	565	MV
180°/MIN.	900	1100	MV
360°/MIN.	1800	2200	MV
TRANSIENT RESPONSE (360°/MIN. OUTPUT TO 1.47 mA)	1.5	2.0	SECS.
CROSS COUPLING		.75	%
NATURAL FREQUENCY	5		CPS
THRESHOLD		1.5	%
WEIGHT (INCLUDING ALLOWANCE FOR ESD CAP)		2.53	LBS.
INSULATION RESISTANCE @ 50 VDC		20	MΩ

ENVIRONMENTAL CAPABILITY:

TEMPERATURE	-22	+122	°F
SHOCK (10 MS)	20		G'S
VIBRATION: 5-50 CPS		1.5	G'S
5-50 CPS		0.020	INCHES
50-1000 CPS	1		G'S
RADIO NOISE: MIL-1-6181			

THD'S. PER MIL-S-7742		ITEM NO. 1		PART NO. 9416-1		CONTRACT NO.		TRANSFORMER - 0-8	
BREAK ALL SHARP EDGES									
SURFACE FINISHES PER USA5-8461 1962	✓								
UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES									
TOLERANCES		DRAWN	J.R.	DATE	10/5/81	CHECKED		ENGINEER	
DECIMAL .X ±.1									
.XX ±.01									
.XXX ±.005									
ANGULAR ±0.5°									
CONCENTRICITY .005 TIR									
MATERIAL		APPROVED		DATE	10/19/81				
MAT'L SPEC.									
NAME OF PART: RATE TRANSMITTER		SIZE: D		CODE IDENT. NO.: 59742		DRAWING NO.: 7125-2			
SCALE: 1/1		WEIGHT:		SHEET: 1 OF 1					

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ENGINEERING CHANGE ORDER

FAA Class

Major

Minor

Drawing No.:

7125-2

ECO No.:

188

Revision:

F

Drawing Name:

Rate Transmitter

Models Affected:

All

Effectivity Date:

8/16/94

Parts Disposition	Use-As-Is	Rework	Scrap	Not Affected	Noted Below	Effectivity	Serial Number	Date
In Stores	X					Development		
In Proc.	X					Production		
In Assy.	X					Service Shop		

Type of Release: Development Production

Reason:

Update drawing

ECO Description:

1) Change max. weight specification from 2.53 lb. to 1.53 lb.

Distribution	Prepared by:	Date
Production Control <input checked="" type="checkbox"/>	Engineering	8/16/94
Quality Control <input checked="" type="checkbox"/>	JE	
Service Shop <input checked="" type="checkbox"/>	UPC	8/17/94