

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

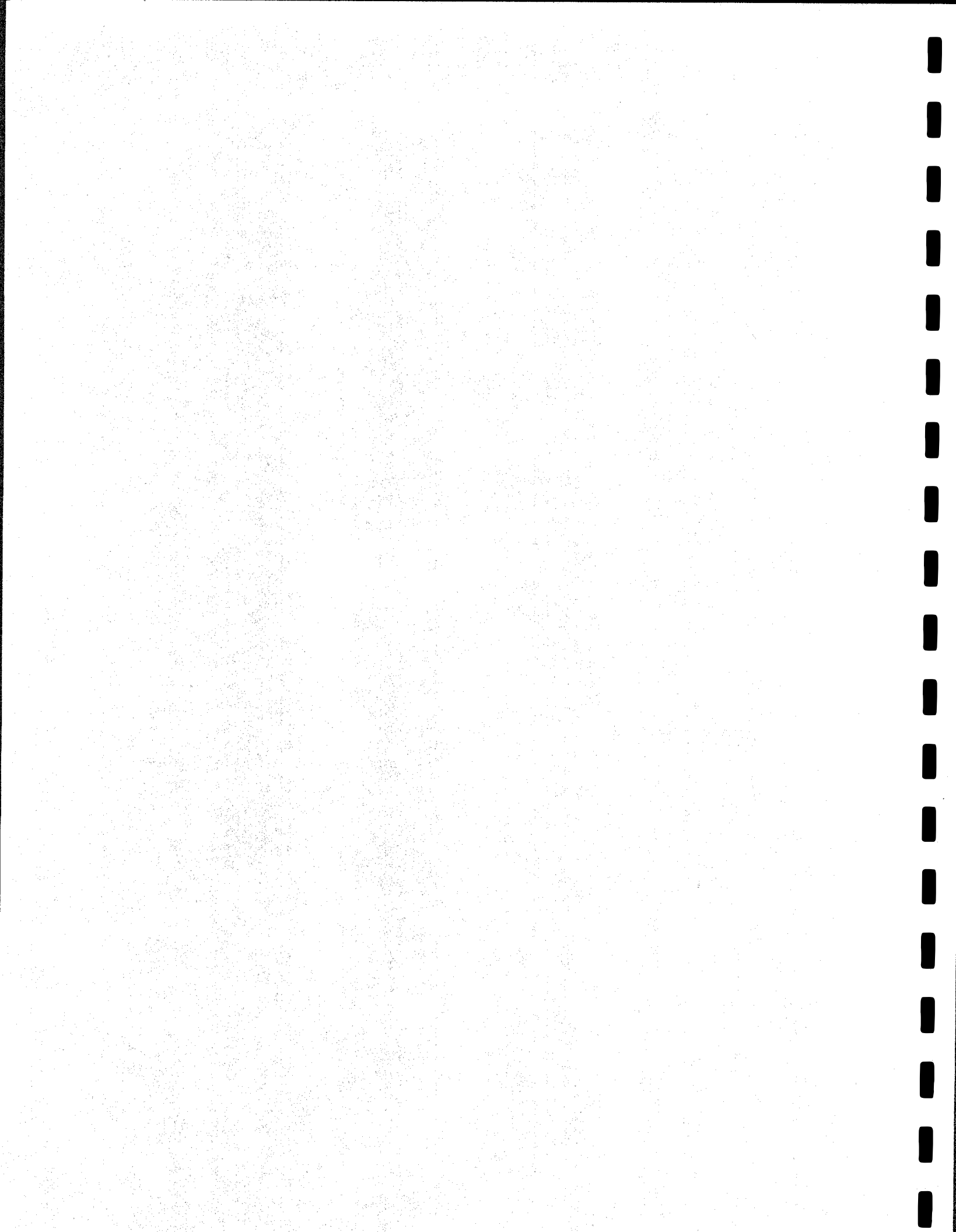
CLASS 40

**PIEZO-ELECTRIC CRYSTALS
AND CRYSTAL HOLDERS
THERMOMETERS THERMOSTATS**

**INCLUDES:CRYSTAL HOLDERS, CRYSTAL-IN-
HOLDER, CRYSTAL TEMPERATURE AP-
PARATUS, THERMOMETERS, THERMO-
STATS, BATHYTHERMOGRAPHS**

CONFIDENTIAL

NAVSHIPS 900,109



Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

3.40-1

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
40000	GENERAL USE	RA 40F 230	CN-40003	GM	RM 40F 106	40010	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			CRYSTAL HOLDER			THERMOSTAT		
CONTACT TYPE WITH MOLDED PHENOLIC INSULATION FOR CRYSTAL CIRCUITS OF 50 WATTS AND OVER.			CONTACT TYPE WITH PHENOLIC INSULATION FOR POWER CIRCUITS.			60° CENTIGRADE - PLATINUM CONTACTS SET WITHIN 0.05°. ANGLE TYPE.		
		(29488)			(2980)			
2/1/33			2/16/33		CN-G-115	9/26/33		
NOV. 41			NOV. 41			NOV. 41		
40000-A	GENERAL USE	RM 40F 104D	40004	TBF	RE 13A 486	40011	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			THERMOSTAT			THERMOMETER		
AIR GAP TYPE WITH CERAMIC INSULATION FOR CRYSTAL CIRCUITS OF 50 WATTS AND OVER.			60° CENTIGRADE - PLATINUM CONTACTS SET WITHIN 0.05°. STRAIGHT TYPE. 70 VOLT 20 MA(RMS) 60 CYCLES AC, 12 VOLT MA DC.			50° CENTIGRADE - CALIBRATED 48° TO 52° C. ANGLE TYPE - STEM - 4-3/4" X 1/4".		
3/28/35			3/21/33			9/26/33		
NOV. 41			NOV. 41			NOV. 41		
CG-40000-B			CAY 40005	TBF		40012	GENERAL USE	RE 13A 486
CANCELLED -- USE CG-40024.			THERMOMETER:			THERMOMETER		
			ANGLE - 60° C. CALIBRATED 55° TO 65° C. SPIRIT FILLED. SUPERSEDED BY - 40005-A.			60° CENTIGRADE - CALIBRATED 58° TO 52° C. ANGLE TYPE - STEM: 4-3/4" X 1/4".		
NOV. 41			3/21/33	CAY: S9781313	CAY: 7605258	9/26/33		
			AUG. 42		PT. 14	NOV. 41		
40001	GENERAL USE	RA 40F 238	CAY 40005A	GENERAL USE		40013	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			THERMOMETER:			THERMOMETER		
CONTACT TYPE WITH MOLDED PHENOLIC INSULATION FOR INDICATOR CIRCUITS.			ANGLE - 60° C. NORMAL; CALIBRATION 55° TO 65° C; GRADUATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 3-5/8" LONG. BULB STEM 1/4" DIA. X 6-7/8" LONG. SAME AS 40005 EXCEPT MERCURY FILLED.			60° CENTIGRADE - CALIBRATED 48° TO 52° C. ANGLE TYPE. STEM - 7" X 1/4".		
		(30688)						
2/24/32			7/18/42			2/16/34		
NOV. 41			AUG. 42			NOV. 41		
40001-A	GENERAL USE		RA-40006	GENERAL USE	RA 40A 242	40014	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			CRYSTAL OSCILLATOR			THERMOMETER		
AIR GAP TYPE WITH CERAMIC INSULATION FOR INDICATOR CIRCUITS. USED IN LJ			STANDARD. RANGE: 2,000-4, 525 KILO-CYCLES. TUBES USED: ONE 38111A AND ONE 38160.			60° CENTIGRADE - CALIBRATED 58° TO 52° C. ANGLE TYPE. STEM - 7" X 1/4".		
1/32			8/30/33			2/16/34		
NOV. 41			NOV. 41			NOV. 41		
CG-40001-B	LJ-1		CPT 40007	LE		40015	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			THERMOMETER			THERMOMETER:		
AIR GAP TYPE WITH CERAMIC INSULATION. USED IN LJ-1.			ANGLE TYPE ARMORED, 18° TO 50° C.			CANCELLED - FOR REPLACEMENT USE 40013.		
1/12/35			9/2/33		K-802652 P-1	2/16/34		
NOV. 41			NOV. 41			AUG. 42		
40001-C	GENERAL USE	RM 40F 105	40008	GENERAL USE	RE 13A 486	40016	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			THERMOSTAT			THERMOMETER:		
AIR GAP TYPE WITH CERAMIC INSULATION & HONEL METAL ELECTRODES.			50° CENTIGRADE - PLATINUM CONTACTS SET WITHIN 0.05°. STRAIGHT TYPE.			CANCELLED - FOR REPLACEMENT USE 40014.		
4/22/35			9/26/33			2/16/34		
NOV. 41			NOV. 41			AUG. 42		
40002	GENERAL USE	RA 40 F 215	40009	GENERAL USE	RE 13A 486	40017	GENERAL USE	RE 13A 486
CRYSTAL HOLDER			THERMOSTAT			THERMOMETER		
AIR GAP TYPE WITH MOLDED PHENOLIC INSULATION.			50° CENTIGRADE - PLATINUM CONTACTS SET WITHIN 0.05°. ANGLE TYPE.			50° CENTIGRADE - CALIBRATED 48° TO 52° C. ANGLE TYPE - HORIZONTAL MOUNTING - STEM: 4-3/4" X 1/4".		
		(29818)						
2/24/32			9/26/33			1/23/35		
NOV. 41			NOV. 41			NOV. 41		

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3.40-2

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
40018	GENERAL USE	RE 13A 486	SHELL. SAME AS 40023A	CRR 40023B		40030	LO-4	RE13A486
<p>40018 GENERAL USE RE 13A 486 THERMOMETER 60° CENTIGRADE - CALIBRATED 50° TO 62° C. ANGLE TYPE - HORIZONTAL MOUNTING - STEM: 4-3/4" X 1/4".</p> <p>1/23/35 NOV. 41</p>			<p>SHELL. SAME AS 40023A EXCEPT CRYSTALS ARE SILVER PLATED AND MINOR MECHANICAL DESIGN CHANGES.</p>			<p>40030 LO-4 RE13A486 THERMOMETER 45° ± 5% (40° TO 50°) GRADUATED IN .2° C INTERVALS. (CPI)</p> <p>4/29/38 NOV. 41</p>		
40019	LD-3	RE 40A 120	CG-40024	T80 & T80-1		CG-40031	GO-4	
<p>40019 LD-3 RE 40A 120 THERMOSTAT - 45° C. STRAIGHT.</p>		<p>CG-40024 T80 & T80-1 CRYSTAL HOLDER CLAMP TYPE.</p>				<p>CG-40031 GO-4 CRYSTAL & CRYSTAL HOLDER (100 KC) HERMETICALLY SEALED AND FILLED WITH INERT GAS. TEMP. COEF 0.0003% OR BETTER PER DEGREE BETWEEN -35° C TO 50° C. Ø EXCEPT 2" CHANGED TO 2-3/8 AND 2-3/4 CHANGED TO 3-1/8.</p> <p>11/23/38 NOV. 41</p>		
6/17/36	139-503-45°C.		10/26/36	K-7870215-1				
<p>6/17/36 139-503-45°C. NOV. 41</p>			<p>10/26/36 K-7870215-1 NOV. 41</p>			<p>K-5966606 REV 0 Ø SEE ABOVE</p>		
40020	LD-3	RE 40A 120	40024-A	T8X-5, 6		CG-40031-A	GO-6	
<p>40020 LD-3 RE 40A 120 THERMOSTAT - 50° STRAIGHT.</p>		<p>40024-A T8X-5, 6 CRYSTAL HOLDER CLAMP TYPE "V" CUT. SAME AS -40024 EXCEPT HAS SINGLE HOLED SHELL INSTEAD OF SEPARATE CASE AND COVER.</p>				<p>CG-40031-A GO-6 CRYSTAL & CRYSTAL HOLDER: SAME AS BASIC NUMBER EXCEPT OVERALL DIAMETER IS DECREASED FROM 1 5/8" TO 1 9/32" AND MECHANICAL MOUNT- ING IS SIMPLIFIED.</p>		
6/17/36	139-503-50°C		8/13/43	CG:32C401G49				
<p>6/17/36 139-503-50°C NOV. 41</p>			<p>8/13/43 CG:32C401G49 NOV. 43 CL:PL-211</p>			<p>CG:K-7894905 REV 0 CL:00. 1663 EDITION 1</p>		
40021	LD-3	RE 40A 138	CHB 40025	TBL-2	RE 13A 486C	CG-40032	GO-4	
<p>40021 LD-3 RE 40A 138 THERMOMETER - 50° C CENTER 47° TO 53° RANGE.</p>			<p>CHB 40025 TBL-2 RE 13A 486C THERMOMETER - ANGLE 30 TO 70° C. MARKED EACH DEGREE.</p>			<p>CG-40032 GO-4 CRYSTAL & CRYSTAL HOLDER (1000 KC). HERMETICALLY SEALED AND FILLED WITH INERT GAS. TEMPERATURE COEF 0.0003% OR BETTER PER DEGREE BETWEEN -35° C TO +50° C. Ø EXCEPT 2" CHANGED TO 2-3/8" & 2-3/4" TO 3-1/8".</p> <p>11/23/38 NOV. 41</p>		
6/17/36	139-486		11/12/36					
<p>6/17/36 139-486 DEC. 44</p>			<p>11/12/36 NOV. 41</p>			<p>K-5966606 REV 0 Ø SEE ABOVE.</p>		
40022	LD-3	RE 40A 138	CRR 40026	GO		40033	GENERAL USE	RE 40A 138
<p>40022 LD-3 RE 40A 138 THERMOMETER - 40° C CENTER 30° TO 50° RANGE.</p>			<p>CRR 40026 GO CRYSTAL IN HOLDER 3105 KC ± 0.005% AT 10° C; TEMPERATURE COEF: 2 PARTS PER MILLION PER DEGREE C OVER A 50° RANGE BETWEEN -32 AND +50°C.</p>			<p>40033 GENERAL USE RE 40A 138 THERMOMETER - ANGLE TYPE 40° C CENTER GRADUATED IN INTERVALS OF 0.5° C FROM 30° C TO 50° C.</p>		
6/17/36	139-485		4/12/38	HX-4A	QB102088			
<p>6/17/36 139-485 DEC. 44</p>			<p>4/12/38 HX-4A NOV. 41 HOLDER</p>		<p>QB102088 PART 1</p>	<p>3/10/39 DEC. 44</p>		
CRR 40023	LM		CRR 40027	GO		CAY 40034	T8X-9	
<p>CRR 40023 LM CRYSTAL IN HOLDER 1 MEGACYCLE A-CUT. EVACUATED HOLDER OCTAL TUBE BASE MOUNTING.</p>			<p>CRR 40027 GO CRYSTAL IN HOLDER 4220 KC ± 0.005% AT 10°C; TEMPERATURE COEF: 2 PARTS PER MILLION PER DEGREE C OVER A 50° RANGE BETWEEN -32 AND +50°C</p>			<p>CAY 40034 T8X-9 BIMETALLIC THERMOSTAT DISK TYPE; OPENS AT 69 TO 73° C CLOSES AT 55 TO 60° C. SPST CONTACTS RATED 3 AMPS AT 330 VOLTS DC OR 2.5 AMP AT 220 VOLTS 60 CYCLES, UNITY POWER FACTOR.</p>		
9/24/36	238	A-L1847-A	4/12/38	HX-4A	QB102088	9/23/39	S#1022783	M-7406282-1
<p>9/24/36 238 NOV. 41</p>			<p>4/12/38 HX-4A NOV. 41 HOLDER</p>		<p>QB102088 PART 2</p>	<p>NOV. 41</p>		<p>SUB 10</p>
CRR 40023A	LM		CRR 40028	GO		CRR 40035	GR	
<p>CRR 40023A LM CRYSTAL AND HOLDER: MECHANICALLY AND ELECTRICALLY INTER- CHANGEABLE WITH 40023 EXCEPT IN THE METHOD BY WHICH CRYSTAL ELECTRODES ARE MOUNTED IN TUBE SHELL, AND THE TYPE OF TUBE SHELL, WHICH IS A STANDARD TYPE 6JS SHELL INSTEAD OF THE TYPE 6CS SHELL.</p>			<p>CRR 40028 GO CRYSTAL IN HOLDER 6210 KC ± 0.005% AT 10° C; TEMPERATURE COEF: 2 PARTS PER MILLION PER DEGREE C OVER A 50° RANGE BETWEEN -32 AND +50° C.</p>			<p>CRR 40035 GR CRYSTAL & HOLDER CRYSTAL FREQUENCY 4495 KC ± 0.005% AT + 10° C. TEMPERATURE COEF EQUALS 2 PARTS PER MILLION PER DEGREE C OVER ANY 50° RANGE BETWEEN -32 AND +50° C.</p>		
11/22/40		AC-57457 REV 1	4/12/38	HX-6A	QB102088	12/7/39	HX-4A	A-18874-5
<p>11/22/40 NOV. 41</p>		<p>AC-57457 REV 1 AC-57458 REV 1</p>	<p>4/12/38 HX-6A NOV. 41 HOLDER</p>		<p>QB102088 PART 3</p>	<p>NOV. 41</p>		<p>6-9-39</p>
CRR 40023B	LM SERIES		CRR 40029	GO		40036	LR	
<p>CRR 40023B LM SERIES CRYSTAL AND HOLDER: MECHANICALLY AND ELECTRICALLY INTER- CHANGEABLE WITH 40023 EXCEPT IN THE METHOD BY WHICH THE CRYSTAL ELECTRODES ARE MOUNTED IN THE TUBE SHELL, AND THE TYPE OF TUBE SHELL WHICH IS A STANDARD TYPE 6JS SHELL INSTEAD OF THE TYPE 6CS</p>			<p>CRR 40029 GO CRYSTAL IN HOLDER 6430 KC ± 0.005% AT 10° C; TEMPERATURE COEF: 2 PARTS PER MILLION PER DEGREE C OVER A 50° RANGE BETWEEN -32 AND +50° C.</p>			<p>40036 LR THERMOMETER 50° C CENTER CALIBRATED 40° TO 60° C; RIGHT ANGLE TYPE. MERCURY STEM 2-5/8" X 1/4" OVERALL. SCALE STEM 3-1/8" X 1/4" OVERALL. GRADUATED IN 0.5° INTERVALS.</p>		
6/11/42	CRR: CJL:	CRR:15-A0004-2	4/12/38	HX-6A HOLDER	QB102088	12/14/39		CAG:139-20 MOD
<p>6/11/42 CRR: CJL: SEPT 45 CK3:15A0004-2</p>		<p>CRR:15-A0004-2 REV 2</p>	<p>4/12/38 HX-6A HOLDER NOV. 41</p>		<p>QB102088 PART 4</p>	<p>NOV. 41</p>		<p>NOV. 41</p>

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
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Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

3.40-3

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CHB 40037	TBT	RE 13A 486	CG-40045	TCX		CG-40053	RBD	
THERMOSTAT 70° C PLATINUM CONTACTS SET WITHIN 0.05° C 6-1/2" X 1/4". STRAIGHT TYPE; SAME AS -40004 EXCEPT CONTROL TEMPERATURE.			CRYSTAL IN HOLDER: 1597.5 KC ± 0.005% AT 25°C AIR GAP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMP. COEF ± 0.0003% PER DEGREE C.			CRYSTAL IN HOLDER: -5300 KC ± .005% AT 25°C CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF ± .0003% PER DEGREE C.		
12/21/39			8/12/41	K-7661700	CG:K-7880404	8/12/41	K-7661700	K-6914124 REV 1
NOV. 41			AUG 43		REV 0	AUG. 43		
CHB 40038	TBT	RE 13A 486	CG-40046	TCX		CG-40054	RBD	
THERMOMETER STYLE 3 70° C - CALIBRATED 68° TO 72° C ANGLE TYPE - HORIZONTAL MOUNTING - MERCURY STEM 7" X 1/4" OVERALL; SCALE STEM 4-1/2" X 1/4" OVERALL. SAME AS -40016 EXCEPT FOR TEMPERATURE RANGE.			CRYSTAL IN HOLDER, 1605 KC ± 0.005% AT 25°C AIR GAP TYPE; HERM- ETICALLY SEALED AND FILLED WITH DRY GAS. TEMP. COEF. ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER: -6250 KC ± .005% AT 25°C CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF. ± .0003% PER DEGREE C.		
12/21/39			8/12/41	K-7661700	K-7880404 REV 0	8/12/41	K-7661700	K-6914124 REV 1
NOV. 41			AUG 43			AUG. 43		
CG-40039	TCO		CG-40047	TCX		CG-40055	RBD	
CRYSTAL HOLDER ESPECIALLY DESIGNED FOR TRIPLEX OPERA- TION (THIRD HARMONIC OF THICKNESS FREQUENCY) OF THE CRYSTAL. PLUGS INTO A MEDIUM 5 PRONG TUBE SOCKET.			CRYSTAL IN HOLDER -1911.25KC ± .005% AT 25°C AIR GAP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMP. COEF ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER: -7205 KC ± .005% AT 25°C CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP COEF ± .0003% PER DEGREE C.		
12/29/39	32C401GV21	K-6910793-1	8/12/41	K-7661700	K-7880404 REV 0	8/12/41	K-7661700	K-6914124 REV 1
NOV. 41		REV 0	AUG 43			AUG 43		
CEE 40040	LR		CG-40048	TCX		CG-40056	RBD	
BIMETALLIC THERMOSTAT 50° C ± 2°; IN EVACUATED GLASS TUBE 2-3/4" LONG BY 9/16" DIAMETER HAVING TWO 6-1/2" LONG LEADS INSULATED WITH SPAGHETTI.			CRYSTAL IN HOLDER. -2192.5 KC ± .005% AT 25°C AIR GAP TYPE; HERMETICALLY SEALED & FILLED WITH DRY GAS; TEMP COEF ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER: -7305 KC ± .005% AT 25°C. CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF. ± .0003% PER DEGREE C.		
2/7/40	D1-2A	CAG:LR-5	8/12/41	K-7661700	K-7880404 REV 0	8/12/41	K-7661700	K-6914124 REV 1
NOV. 41			AUG. 43			AUG. 43		
CG-40041	TBC-3		CG-40049	TCX		CG-40057	RBD	
CRYSTAL HOLDER - PRESSURE TYPE. SIMILAR IN CONSTRUCTION TO CG-40024. IDENTICAL IN EXTERNAL DIMENSIONS TO CG-40000.			CRYSTAL IN HOLDER, 2667.5 KC ± .005% AT 25°C; CLAMP TYPE; HERM- ETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER: -7335 KC ± .005% AT 25°C. CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF ± .0003% PER DEGREE C.		
1/15/40	32C401 G57	K-7877060-1	8/12/41	K-7661700	K-6914124 REV 1	8/12/41	K-7661700	K-6914124 REV 1
NOV. 41		REV 2	AUG. 43			AUG. 43		
CAY 40042	YC-1		CG-40050	TCX		CG-40058	RBD	
THERMOSTAT DISH TYPE. OPENS 40 TO 45° C. CLOSES AT 22 TO 26° C SPST; CONTACTS RATED 3 AMPS AT 110 VOLTS. 60 CYCLES AT UNITY POWER FACTOR.			CRYSTAL IN HOLDER. 2716 KC ± .005% AT 25°C; CLAMP TYPE. HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER: -6730 KC ± .005% AT 25°C. CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS; TEMP. COEF. ± .0003% PER DEGREE C.		
5/20/41	S#1103602	H-7406282-15	8/12/41	K-7661700	K-6914124 REV 1	8/12/41	K-7661700	K-6914124 REV 1
NOV. 41		SUB 11	AUG. 43			AUG. 43		
CG-40043	TCX		CG-40051	RBD		CRV 40059	*SEE BELOW	
CRYSTAL IN HOLDER. 1522.5 KC ± .005% AT 25°C; AIR GAP TYPE. HERMETICALLY SEALED & FILLED WITH DRY GAS. TEMP. COEF. ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER. -3631KC ± .005% AT 25°C; CLAMP TYPE; HERMETICALLY SEALED & FILLED WITH DRY GAS. TEMP. COEF ± .0003% PER DEGREE C.			CRYSTAL HOLDER: PRESSURE AIR GAP 3 PIN TYPE; PHENOLIC		
8/12/41	K-7661700	K-7880404	8/12/41	K-7661700	K-6914124 REV 1	*SUB 1, YA-8848C. ISSUE A *ASA, SA AND SA-1 10/23/41 CRV:VC-5-KS CRV:K-871476-2 DEC. 44 *SEE ABOVE		
AUG. 43		REV 0	AUG. 43					
CG-40044	TCX		CG-40052	RBD		CPL 40060	YE-1	RE 13A 486
CRYSTAL IN HOLDER. 1572.5 KC ± .005% AT 25°C; AIR GAP TYPE. HERMETICALLY SEALED & FILLED WITH DRY GAS. TEMP. COEF. ± .0003% PER DEGREE C.			CRYSTAL IN HOLDER: -3960 KC ± .005% AT 25°C CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GLASS; TEMP. COEF. ± .0003% PER DEGREE C.			THERMOMETER, ANGLE TYPE 70° C CALIBRATED 68° TO 72° ANGLE TYPE FOR HORIZONTAL MOUNTING WITH BULB ON RIGHT END.		
8/12/41	K-7661700	K-7880404 REV 0	8/12/41	K-7661700	K-6914124 REV 1	11/19/41		CRV:K-818975-7
AUG. 43			AUG 43			APR. 42		SUB 0
				ASSIGNED				
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

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3.40-4

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CSQ 40061	YE-1		CEE 40064	SJ		CG-40070	TCX	
THERMOSTAT			BIMETALLIC THERMOSTAT:			CRYSTAL IN HOLDER:		
DISK TYPE OPENS 85° C TO 88° C. CLOSSES AT 74° TO 79° C. SPST CONTACTS RATED 3 AMP AT 110 V. 60 CYCLES, UNITY POWER FACTOR.			40° C ± 2° C NORMALLY CLOSED. CONTACTS ENCLOSED IN AN EVACUATED GLASS TUBE RATED 600 WATTS RESISTIVE LOAD, AT 115 V AC DC, FERRULE TYPE.			-2670 KC ± .005% AT 25°C. CLAMP TYPE, HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMPERATURE COEFFICIENT ± .0003% PER DEGREE C.		
11/19/41 C-2851-1	CRV:K-856266-1		1/7/42 M8-D8-2B	ES-682050-1		4/9/42 K-7661700	K-6914124	
MAR. 42	SUB 1		AUG. 43	ISSUE 5		AUG. 43		
CG 40062	YE-1 & TBS		CEE 40065	SJ		CG-40071	TCX	
CRYSTAL HOLDER:			BIMETALLIC THERMOSTAT:			CRYSTAL IN HOLDER:		
PRESSURE AIR GAP TYPE, 2 PIN CERAMIC.			65° C ± 2° C, NORMALLY OPEN, CONTACTS ENCLOSED IN AN EVACUATED GLASS TUBE, RATED 50 WATTS SERIES MOTOR LOAD 115 V AC DC, FERRULE TYPE.			-2994 KC ± .005% AT 25°C, CLAMP TYPE, HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMPERATURE COEFFICIENT ± .0003% PER DEGREE C.		
CRV:M-402986 REV 25			1/21/42 M8-D8-2B	ES-682050-2		4/9/42 K-7661700	K-6914124	
11/27/41 AVA-10H	XA-8863		AUG. 43	ISSUE 5		AUG. 43		
MAR. 43	AVA-10R & AVA-10T (SEE ABOVE)		CG-40062-A	TBS-4		CG-40072	RBD	
			CRYSTAL HOLDER:			CRYSTAL IN HOLDER:		
ELECTRICALLY AND MECHANICALLY INTER-CHANGEABLE WITH -40062 BUT HAS NO ADJUSTMENT SCREW AND USES A SMALLER CRYSTAL.			NORMALLY CLOSED, OPENS AT 132° F + 0°, -8°, CONTACTS RATED 8 AMPS AT 120 V AC DC, FOR METAL BLOCK MOUNTING.			-3155 KC ± .005% AT 25°C, CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMPERATURE COEFFICIENT ± .0003% PER DEGREE C.		
5/1/43	KK32C401G47	K-7893780 REV 0	2/13/42	CEE:D8-2A		4/9/42	K-7661700	K-6914124
AUG. 43			MAR. 42			AUG. 43		
CGV 40062-B	NXsr-33698		CEE 40067	FH, SH, SJ		CG-40073	RBD	
CRYSTAL HOLDER			BIMETALLIC THERMOSTAT			CRYSTAL IN HOLDER:		
SAME AS -40062-A EXCEPT USES EVEN SMALLER CRYSTAL MOUNTED IN A PHENOLIC CASE (-40125) WHICH IS SEALED INTO A PHENOLIC ADAPTER.			NORMALLY CLOSED, OPENS AT 135° F ± 1/2° F. CONTACTS RATED 1/2 AMP AT 120 V-AC/DC FOR METAL BLOCK MOUNTING.			-3585 KC ± .005% AT 25°C, CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMPERATURE COEFFICIENT ± .0003% PER DEGREE C.		
10/5/43			2/13/42	S1-1A		4/9/42	K-7661700	K-6914124
NOV. 43			MAR. 42			AUG. 43		
CGV 40062-C	NXSS		40068	TCS	XA-88778	CG-40074	RBD	
CRYSTAL HOLDER			CRYSTAL HOLDER:			CRYSTAL IN HOLDER:		
SAME AS -40062-B EXCEPT CRYSTAL IS PLATED AND MOUNTED BETWEEN METAL ELECTRODES.			VARIABLE AIR GAP TYPE, EASILY OPENED FOR REPLACEMENT OF CRYSTAL. USES 1" CRYSTAL.			-3909 KC ± .005% AT 25°C, CLAMP TYPE; HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMPERATURE COEFFICIENT ± .0003% PER DEGREE C.		
10/5/43			2/21/42	COL:1G	COL:3908-1	4/9/42	K-7661700	K-6914124
NOV. 43			AUG. 43		DATED 8-6-41	AUG. 43		
CHF 40062-D	TBS SERIES*		COP 40068-A	*FOR USE WITH		CGV 40075		
CRYSTAL HOLDER			CRYSTAL HOLDER:					
2 PIN, PRESSURE AIR-GAP TYPE WITH MOLDED PHENOLIC CASE. CONTAINS 3/4" SQUARE CRYSTAL WITH BUTTON ELECTRODES.			PRESSURE AIR GAP (FIXED) TYPE, EASILY OPENED FOR REPLACEMENT OF CRYSTAL. DIFFERS INTERNALLY BUT HAS SAME EXTERNAL DIMENSIONS AS BASIC NUMBER (-40068), 3 PIN CASE 2 3/16" HIGH, 1 3/8" WIDE, *TCS					
*(NXsr-43419)			5/7/43	COP:SP-3	COP:SH-1002			
12/21/43	HN-10		SEPT 43					
MAR. 44	(HOLDER)							
CG 40063	TCK, -TCK-1		COP 40068-A			CSQ 40076	SA, SA-1	
CRYSTAL AND HOLDER: 200 KC			1 5/16" THICK WITH 1/2" LONG, 0.156" DIA PRONGS-OVERALL HEIGHT 2 11/16". USES 1" CRYSTAL. COMPLETE ASSEMBLY WITH CRYSTAL INTERCHANGEABLE WITH -40068 COMPLETE ASSEMBLY.			SWITCH THERMAL: SPDT,		
± .005% AT 25°C, TEMP COEF 0003% PER DEGREE C FROM 0° TO +50° C. TWISTED X TYPE OF CUT. CRYSTAL HOLDER CONSISTS OF A G38-A HERMETICALLY SEALED UNIT, EIGHT PRONG WITH CRYSTAL CONTACTS BROUGHT OUT ON PIN #3 AND PIN #7. SHELL CONNECTED						CONTACTS RATED 15 AMPS AT 110 VOLTS AC. PANEL MOUNTING, DISC TYPE WITH HEATER, OPERATING TEMP LIMITS, -1° TO + 50°C, COMPENSATED. HEATER 115 VOLTS, 60 CYCLES AC (IN SERIES WITH WATT LOAD). 30 SECOND COOLING AND HEATING CYCLE.		
12/12/41	HL-7466472 G2	SEE PLATE 2				4/15/42	KLIXON ER-5	CRV:M-422407-1
AUG. 43						JUNE 42		SUB 0
CG 40063			CG-40069	TCX		CSQ 40077	SA, SA-1	
TO PIN #1. CRYSTAL OSCILLATES ALONG ITS LENGTH. SAME AS TYPE 40132 EXCEPT FOR FREQUENCY.			CRYSTAL IN HOLDER:			SWITCH THERMAL: SPST,		
			-2240 KC ± .005% AT 25°C. AIR GAP TYPE, HERMETICALLY SEALED AND FILLED WITH DRY GAS. TEMPERATURE COEFFICIENT ± .0003% PER DEG. C			CONTACTS RATED 8 AMPS 125 VOLTS AC, 4 AMPS 250 VOLTS AC, METAL COP MOUNTING, DISC TYPE WITHOUT HEATER, OPERATING TEMP LIMITS, CLOSING TEMP 32°F, OPENING TEMP 52°F.		
CGC:M-7466472 REV 5; CG:K-7882542 REV 2			4/9/42	K-7661700	K-7880404	4/15/42	KLIXON-1	CRV:K-874411-1
			AUG. 43			JUNE 42	C-2851-1	SUB 0

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

3.40-5

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CSQ 40078	SA, SA-1		CPE 40083	SG	XA-8875-B	40091	TAU-1	RE 40A 138
SWITCH THERMAL; SPST, CONTACTS RATED 8 AMPS 125 VOLTS AC, 4 AMPS 250 VOLTS AC, METAL CUP MOUNTING, DISC TYPE WITHOUT HEATER, OPERATING TEMP LIMITS, CLOSING TEMP 80°F, OPENING TEMP 100°F.			CRYSTAL HOLDER: TWO PRONG, HELD IN MONEL METAL RETAINING RING, HOLDER MATERIAL IS 17 ST DURALUMINIUM AND ISOLANTITE.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 45° TO 55° C; GRADUATED EACH 1/2° C. CALIBRATION STEM .246" DIA. X 4-1/2" LONG; BULB STEM .246" DIA. X 4-1/2" LONG.		
4/15/42	KLIXON	CRV:K-874411-2	7/16/42	3-ND	CRP:DLG122-5000	7/18/42		
JUNE 42	C-2851-1	SUB 0	MAR. 43		REV J	AUG. 42		
CTB 40079	UM SOUND		40084	GENERAL USE	RE 40A 137	40092	T&K-1,-2,-3	RE 40A 138
BATHY THERMOGRAPH; TEMPERATURE RANGE 30° TO 90° F. DEPTH RANGE 0 TO 200 FEET. WATER TEMPERATURE GRADIENT RECORDING DEVICE.			THERMOMETER STRAIGHT: 20° C. NOMINAL CALIBRATED - 10° TO +50° C GRADUATED EACH 1° C. 1/4" DIA. X 6" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 45° TO 55° C; GRADUATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 3-5/8" LONG; BULB STEM 1/4" DIA. X 6-7/8" LONG.		
5/7/42			7/18/42			7/18/42		
OCT. 42			AUG. 42			AUG. 42		
CTB 40080	*SEE BELOW		40085	TAQ	RE 40A 138	40093	GENERAL USE	RE 40A 138
BATHY THERMOGRAPH; SURFACE VESSEL TYPE. RANGE 30 TO 90°F. DEPTH 0 TO 500 FEET (1/6 FATHOM) WATER TEMP GRADIENT RECORDING DEVICE.			THERMOMETER ANGLE: 45° C. NOMINAL; CALIBRATED 30° TO 60° C; GRADUATED EACH 1° C. CALIBRATION STEM 1/4" DIA. X 2-3/4" LONG; BULB STEM 1/4" DIA. X 2-1/4" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 47.5° TO 52.5° C; CALIBRATED EACH 1° C. CALIBRATION STEM 1/4" DIA. X 4-1/2" LONG; BULB STEM 1/4" DIA. X 7" LONG.		
*UNDERWATER SOUND			7/18/42			7/18/42		
5/7/42			AUG. 42			AUG. 42		
JUNE 42								
CTB 40080-A	U. W. SOUND		40086	TAD-1	RE 40A 138	40094	TAQ-2	RE 40A 138
BATHY THERMOGRAPH (DEEP) (SURFACE VESSEL TYPE); RANGE: 30° TO 90°F. DEPTH: 0 TO 450 FEET (1/6 FATHOM). WATER TEMPERATURE GRADIENT RECORDING DEVICE. SAME AS -40080 EXCEPT MEASURING SYSTEM ISOLATED FROM HEAVY NOSE PIECE. SIMILAR TO -40120-A EXCEPT FOR DEPTH			THERMOMETER ANGLE: 45° C NOMINAL; CALIBRATED 35 TO 55° C; GRADUATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 4-5/8" LONG; BULB STEM 1/4" DIA. X 3-1/2" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 49° TO 51° C; CALIBRATED EACH 1/10° C. CALIBRATION STEM .276" TO .323" DIA. X 4-5/8" LONG; BULB STEM .276" TO .323" DIA. X 4-3/4" LONG.		
3/2/44			7/18/42			7/18/42		
MAR. 44			AUG. 42			AUG. 42		
		CTB 40080-A	40087	TAW	RE 40A 138	40095	GENERAL USE	RE 40A 138
		RANGE.	THERMOMETER ANGLE: 45° C NOMINAL; CALIBRATED 35° TO 55° C; GRADUATED EACH 1/2° C. CALIBRATION STEM .276" TO .323" DIA. X 4-5/8" LONG; BULB STEM .276 TO .323" DIA. X 5-3/8" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 49° TO 51° C; CALIBRATED EACH 1/10° C. CALIBRATION STEM 1/4" DIA. X 3-3/8" LONG; BULB STEM 1/4" DIA. X 6-1/8" LONG.		
			7/18/42			7/18/42		
			AUG. 42			AUG. 42		
CBM 40081	OAM		40088	LD	RE 40A 138	40096	TAR-2	RE 40A 138
BATHY THERMOGRAPH; (SURFACE VESSELS) TEMPERATURE RANGE 30 TO 90°F WITH A PRECISION OF RECORDING OF ± .1°F. AND THE CALIBRATION OF THE UNIT IS ACCURATE TO WITHIN ± .1°F. THE DEPTH RANGE IS 450 FEET WITH A PRECISION OF ± 3 FEET, AND THE CALIBRATION IS ACCURATE			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 47° TO 53°, GRADUATED EACH 1° C. CALIBRATION STEM 1/4" DIA. X 3-1/8" LONG; BULB STEM 1/4" DIA. X 4-5/8" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 49° TO 51° C; CALIBRATED EACH 1/10° C. CALIBRATION STEM 1/4" DIA. X 3-15/16" LONG; BULB STEM 1/4" DIA. X 5" LONG.		
6/17/42	780F	780F ALT. 0	7/18/42			7/18/42		
MAR. 43			AUG. 42			AUG. 42		
		CBM 40081	40089	TAJ-3	RE 40A 138	40097	LD-1	RE 40A 138
		TO ± 3 FEET.	THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 40° TO 60° C; GRADUATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 2-3/4" LONG; BULB STEM 1/4" DIA. X 3-5/8" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 49° TO 51° C; CALIBRATED EACH 1/10° C. CALIBRATION STEM 1/4" DIA. X 2-11/16" LONG; BULB STEM 1/4" DIA. X 3-1/2" LONG.		
			7/18/42			7/18/42		
			AUG. 42			AUG. 42		
CCM 40082	SG		40090	TAR	RE 40A 138	40098	* SEE BELOW	RE 40A 138
THERMOSWITCH; SPST TEMPERATURE RANGE 50° F-400° F. 10 AMPS. 110 VOLTS OR 5 AMPS. 220 VOLTS. AC ONLY.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 40° TO 60° C; GRADUATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 5-1/2" LONG; BULB STEM 1/4" DIA. X 5-1/4" LONG.			THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 49° TO 51° C; CALIBRATED EACH 1/10° C. CALIBRATION STEM 1/4" DIA X 4-1/4" LONG. BULB STEM 1/4" DIA X 5-3/16" LONG.		
7/9/42	732 RC	CRP:DLG28-5037	7/18/42			* TAU, TAZ, TAT-1, TAR-2		
AUG. 42		SUB 0	AUG. 42			7/18/42		
						OCT. 42		

CONFIDENTIAL

NAVSHIPS 900,109

3.40-6

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
40099	* SEE BELOW	RE 40A 138	40107	TAR-2, TAZ	RE 40A 139	40115	TAU-1	RE 40A 141
THERMOMETER ANGLE: 50° C NOMINAL; CALIBRATED 49° TO 51° C; CALIBRATED EACH 1/10° C. CALIBRATION STEM .276" TO .323" DIA. X 4-5/8" LONG; BULB STEM .276" TO .323" DIA. X 7-3/8" LONG.			THERMOSTAT STRAIGHT: 50°C CONTACT STEM HAS 3/16" DIA. X 4" LENGTH. BULB STEM HAS 1/4" DIA. X 1-1/2" LENGTH.			THERMOSTAT ANGLE: 40° TO 60° C. CONTACT STEM, 1/4" DIA. X 4" LONG. BULB STEM 1/4" DIA. X 4-3/8" LONG (OVERALL) WHICH INCLUDES A BULB OF 13/32" DIA. X 3-3/4" LONG.		
* TBB, TBA, -1, TBC, -1 7/18/42 AUG. 42			7/20/42 AUG. 42			7/20/42 AUG. 42		
40100	TAF, TAG, TAO	RE 40A 138	40108	LD	RE 40A 139	40116	LD-1	RE 40A 141
THERMOMETER ANGLE: 55° C NOMINAL; CALIBRATED 45° TO 65° C; CALIBRATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 4-5/8" LONG; BULB STEM 1/4" X 4-3/4" LONG.			THERMOSTAT STRAIGHT: 50°C STEM HAS 1/4" DIA. X 3-1/2" LENGTH (COVERALL).			THERMOSTAT ANGLE: 45° C CONTACT STEM; 1/4" DIA. X 2-1/2" LONG. BULB STEM 1/4" DIA. X 3-1/2" LONG (OVERALL) WHICH INCLUDES A BULB OF 1/4" DIA. X 3" LONG.		
7/18/42 AUG. 42			7/20/42 AUG. 42			7/20/42 AUG. 42		
40101	TAJ-2	RE 40A 138	40109	GENERAL USE	RE 40A 139	40117	TAJ-3	RE 40A 141
THERMOMETER ANGLE: 55° C NOMINAL; CALIBRATED 45° TO 65° C; CALIBRATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 4-5/8" LONG; BULB STEM 1/4" DIA. X 4-3/4" LONG. SAME AS 40100 EXCEPT FOR LENGTH OF BULB.			THERMOSTAT STRAIGHT: 50°C CONTACT STEM HAS 7/32" DIA. X 3-13/16" LENGTH. BULB STEM HAS 1/4" DIA. X 2-3/16" LENGTH.			THERMOSTAT ANGLE: 50°C CONTACT STEM, 1/4" DIA. X 2-13/16" LONG. BULB STEM, 1/4" DIA. X 3-3/8" LONG (OVERALL) WHICH INCLUDES A BULB OF 3/8" DIA.		
7/18/42 AUG. 42			7/20/42 AUG. 42			7/20/42 AUG. 42		
40102	LD-1, TAW	RE 40A 138	40110	* SEE BELOW	RE 40A 139	40118	GENERAL USE	RE 40A 141
THERMOMETER ANGLE: 55° C NOMINAL; CALIBRATED 45° TO 65° C; CALIBRATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 4-5/8" LONG; BULB STEM 1/4" DIA. X 5-3/8" LONG.			THERMOSTAT STRAIGHT: 50°C STEM HAS 1/4" DIA. X 4" LENGTH (OVERALL).			THERMOSTAT ANGLE: 50° C CONTACT STEM, 3/16" DIA. X 2-1/2" LONG. BULB STEM, 3/16" DIA. X 4" LONG (OVERALL), WHICH INCLUDES A BULB OF 1/4" DIA. X 3-1/4" LONG.		
7/18/42 AUG. 42			* TAT-1, TAU, TAZ 7/20/42 AUG. 42			7/20/42 AUG. 42		
40103	GD	RE 40A 138	40111	GENERAL USE	RE 40A 139	40119	GENERAL USE	RE 40A 141
THERMOMETER ANGLE: 55° C NOMINAL; CALIBRATED 45° TO 65° C; CALIBRATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 4-1/4" LONG; BULB STEM 1/4" DIA. X 4-3/4" LONG.			THERMOSTAT STRAIGHT: 50°C CONTACT STEM HAS 3/16" DIA. X 2-3/4" LENGTH. BULB STEM HAS 1/4" DIA. X 3-1/4" LENGTH.			THERMOSTAT ANGLE: 50° C CONTACT STEM, 1/4" DIA. X 4-1/4" LONG. BULB STEM, 1/4" DIA. X 1-3/8" LONG (OVERALL) WHICH INCLUDES A BULB OF 1/4" DIA. X 11/16" LONG.		
7/18/42 AUG. 42			7/20/42 AUG. 42			7/20/42 AUG. 42		
40104	GD	RE 40A 138	40112	LD-1	RE 40A 140	CTB 40120	UW SOUND BATHYTHERMOGRAPH (SHALLOW) RANGE 30 TO 90° F. DEPTH 0 TO 180 FEET. SAME AS TYPE CTB-40080 EXCEPT FOR DEPTH RANGE. WATER TEMP - DEPTH GRADIENT RECORDING DEVICE.	
THERMOMETER ANGLE: 55° C NOMINAL; CALIBRATED 45° TO 65° C; CALIBRATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 9/16" LONG; BULB STEM 1/4" DIA. X 6-5/8" LONG.			THERMOSTAT ANGLE: 50° C CONTACT STEM; 1/4" DIA. X 2-1/2" LONG. BULB STEM 1/4" DIA. X 3-1/2" LONG (OVERALL), WHICH INCLUDES A BULB OF 1/4" DIA. X 1-1/2" LONG.			8/18/42 OCT. 42		
7/18/42 AUG. 42			7/20/42 AUG. 42					
40105	TBA-1A	RE 40A 138	40113	TAP-1, TAJ-2	RE 40A 140	CTB 40120-A	U. W. SOUND BATHYTHERMOGRAPH (SHALLOW) RANGE: 30 TO 90° F. DEPTH: 0 TO 180 FEET. SAME AS NAVY TYPE -40120 EXCEPT PRESSURE MEASURING SYSTEM ISOLATED FROM HEAVY NOSE PIECE. SAME AS -40080-A EXCEPT FOR DEPTH RANGE.	
THERMOMETER ANGLE: 60° C NOMINAL; CALIBRATED 50° TO 70° C; CALIBRATED EACH 1/2° C. CALIBRATION STEM 1/4" DIA. X 4-5/8" LONG; BULB STEM 1/4" DIA. X 4-1/2" LONG.			THERMOSTAT ANGLE: 50°C CONTACT STEM; 1/4" DIA. X 1-3/4" LONG. BULB STEM, 1/4" DIA. X 3-1/2" LONG (OVERALL) WHICH INCLUDES A BULB OF 9/32" DIA.			3/2/44 MAR. 44		
7/18/42 AUG. 42			7/20/42 AUG. 42					
40106	LB	RE 40A 139	40114	TBA-1A	RE 40A 140	40121	GENERAL USE RN 40A 118A CRYSTAL HOLDER: 5 PRONG, WIDTH 1-1/2" THICKNESS 1-1/8", 1 7/16" HEIGHT EXCLUSIVE OF PINS. FREQ. RANGE 1500 TO 5000 KC AIRGAP. NON-HEATER	
THERMOSTAT STRAIGHT: 40° C. STEM HAS 1/4" DIA. X 3-1/2" LENGTH (OVERALL).			THERMOSTAT ANGLE: 60°C CONTACT STEM, 1/4" DIA. X 2-1/2" LONG. BULB STEM, 1/4" DIA. X 3-1/2" LONG. (OVERALL) WHICH INCLUDES A BULB OF 1/4" DIA. X 1-5/8" LONG.			8/24/42 COL:IC NOV. 432 COL:X-1755		
7/20/42 AUG. 42			7/20/42 AUG. 42					
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
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40122 GENERAL USE RW 40A 119A
CRYSTAL HOLDER: 3 PRONG
WIDTH 1-1/2", THICKNESS 1-1/8", HEIGHT
1-7/16" FREQ RANGE 1500 TO 5000 KC
AIRGAP NON-HEATER.

8/24/42 COL:1D COL:X-1756
NOV. 43

40123 GENERAL USE RW 40A 120A
CRYSTAL HOLDER: 5 PRONG
WIDTH 1-1/2", THICKNESS 1-1/8", HEIGHT
1-7/16" FREQ RANGE 1500 TO 5000 KC.
AIRGAP 2 CRYSTAL NON-HEATER. DUAL
HOLDER.

8/24/42 COL:1E COL:X-1829
NOV. 43

CEE 40124 SE
BIMETALLIC THERMOSTAT:
NORMALLY CLOSED, OPENS AT 163°C ±5°C
WITH DIFFERENTIAL OF 15°C. FOR OPERA-
TION ON 32 VOLT AC/DC, 55 WATT, NON-
INDUCTIVE LOAD. CONTACTS RATED AT 1.72
AMPS.
COW:ESL-684487 ISSUE 5.
9/14/42 109252
MAR. 43 COW:KS-10145 @SEE ABOVE

40125 * SEE PLATE 2
CRYSTAL HOLDER: FOR .6X.5"
CRYSTAL. OVERALL DIMENSIONS: BODY 13/16"
WIDE, 1-1/8" HIGH, 7/16" THICK. HAS 2
PRONGS .095" DIAM, 13/32" ±1/32" LONG
AND .486" ±.003" APART. OVERALL HEIGHT
1-19/32" MAX. BAKELITE CASE. THIS NAVY
TYPE NUMBER IS ALSO APPLICABLE TO THE
9/15/42 @SEE PLATE 2 @SEE PLATE 2
MAR. 43

40125
BLILEY ELECTRIC CO CRYSTAL HOLDER USED
FOR FREQUENCIES BELOW 3000 KC. (CQB,CHF)

* MU,MV,MW,MX, LS-1
@ SIGNAL CORPS FT-243 STANDARO; CQB:MC-9
MC-91
@CHL:19938,19939, 19940; CQB:80078
CQB:3031

40125-A GENERAL USE
CRYSTAL HOLDER:
FOR 0.55"X0.45" CRYSTAL. OVERALL DIMEN-
SIONS: BODY 13/16" WIDE, 1-1/8" HIGH,
7/16" THICK; HAS 2 PRONGS 0.093" DIAM.
13/32±1/32" LONG AND 0.486±0.003" APART.
OVERALL HEIGHT 1-19/32" MAX, BAKELITE
CASE. SAME OVERALL AND POUNTING DIMEN-
12/29/42 SIGNAL CORPS CHL:19938,39,40
MAY 43 FT-243S

40125-A
SIONS AS BASIC NUMBER BUT CRYSTAL CAVITY
IS SMALLER.

40125-B GENERAL USE
CRYSTAL HOLDER:
FOR 7/16"X7/16" CRYSTAL. OVERALL DIMEN-
SIONS: BODY 13/16" WIDE, 1-1/8" HIGH,
7/16" THICK. HAS 2 PRONGS 0.093" DIAM.
13/32±1/32" LONG AND 0.486±0.003 APART.
OVERALL HEIGHT 1-19/32" MAX, BAKELITE
CASE. SAME OVERALL DIMENSIONS AS BASIC
12/29/42 SIGNAL CORPS CHL:19938,39,40
MAY 43 FT-243T

40125-B
NUMBER BUT CRYSTAL CAVITY IS SMALLER.

40125-C RCK
CRYSTAL HOLDER
FOR 0.6" X 0.5" CRYSTAL. OVERALL DIMEN-
SIONS: BODY 13/16" WIDE, 1 1/8" HIGH,
7/16" THICK. HAS 2 PRONGS 0.093" DIA.
13/32" ±1/32" LONG AND 0.486 ±0.003"
APART. OVERALL HEIGHT 1 19/32" MAX.
BAKELITE CASE. SAME AS -40125 EXCEPT HAS
9/2/43 SIGNAL CORPS
NOV. 43 FT-243

40125-C
PLATED ELECTRODES INSTEAD OF METAL
ELECTRODES. RCA TYPE VC-2-E.

CEE 40126 SE
BIMETALLIC THERMOSTAT:
NORMALLY CLOSED, OPENS AT 163°C ±5°C
WITH DIFFERENTIAL OF 15°C. FOR OPERA-
TION ON 115 VOLTS AC/DC, 55 WATTS, NON-
INDUCTIVE LOAD. CONTACTS RATED AT .5
AMPS.

9/18/42 33183 COW:ESL-684487,
MAR. 43 COW:KS-10127 ISSUE 5

40127 ATC
CRYSTAL IN HOLDER
OCTAL BASE, HERMETICALLY SEALED. FREQ.
RANGE IS 200 KC ONLY. SIZE CRYSTAL IS
.660 X .750 X .050 GT CUT.

10/3/42 COL:1H-1 COL:2184A-1
DEC. 44 4/24/43

40127-A ATC
CRYSTAL-IN-HOLDER
OCTAL BASE, HERMETICALLY SEALED. SAME AS
-40127 EXCEPT CRYSTAL MOUNTED IN TUBE
SHELL IS MADE BY WESTERN ELECTRIC. THIS
UNIT HAS BEEN MARKED COW:48127

12/8/43
NOV. 43

CG: 40128 TCK-1-2.TCJ-1
CRYSTAL IN HOLDER:
200 KC±0.005% AT 25°C. TEMPERATURE
COEFFICIENT IS 0.0001% PER DEGREE C FROM
0°C TO+50°C."GT" TYPE CUT. CRYSTAL HOLDEI
CONSISTS OF A G44 HERMETICALLY SEALED
UNIT. EIGHT PRONG WITH CRYSTAL CONTACTS
BROUGHT OUT ON PIN #3 AND #7. SHELL
12/28/42 CG:K7889597PI CG:K7889521
MAY 43 REV 0

CG:40128
CONNECTION TO PIN#1.

40129 TCS
CRYSTAL HOLDER:
PRESSURE AIR GAP 3 PIN TYPE; WITH FLEC-
TRODES FOR 3/4" CRYSTALS.

10/14/42 CHF:5H CHF:5H-10
MAY 43 7/6/42

40130 TCS CHF:5H-10
CRYSTAL HOLDER: 7/6/42
PRESSURE AIR GAP 3 PIN TYPE; WITH ELEC-
TRODES FOR 1" CRYSTALS. HAS 2 CAVITIES
ONLY 1 USED.

(COAST GUARD TYPE T-2)
*CHF:5H-10 7/6/42, CHZ:NA-1C85 REV 0
10/14/42 CH:5H CG:K-7468. REV 1*

40130-A TCS SERIES XA8877D
CRYSTAL HOLDER XA8848E
PLATED CRYSTAL, 3 PIN TYPE. SAME AS
-40130 EXCEPT HAS PLATED CRYSTAL.

12/22/43 CG:M-62664-42-1
MAR. 44 REV 0

COP 40130-B TCS SERIES XA8877D
CRYSTAL HOLDER XA8848E
PRESSURE AIR GAP 3 PIN TYPE; WITH ELEC-
TRODES FOR 1" CRYSTALS. SAME AS -40130
EXCEPT HAS SINGLE CAVITY.

12/30/43 SP-3A COP:2030
MAR. 44 REV 0

CRY 40130-C TCS SERIES XA-8877D
CRYSTAL HOLDER XA-8848E
SAME AS -40130-A EXCEPT CRYSTAL PLATE IS
SMALLER.

3/3/44 VC-5-L CRY:K-891694
AUG. 44 SUB 0

CTB 40131 GENERAL UWS.
BATHY THERMOGRAPH
(SUBMARINE TYPE): TEMPERATURE RANGE:
30° TO 90° FAHRENHEIT. DEPTH RANGE: 0 TO
450; WILL WITHSTAND PRESSURES UP TO 600
FEET OF WATER.

1/30/43
MAY 43

CG: 40132 MARK 11
CRYSTAL IN HOLDER
(163.95±0.1% KC): TEMPERATURE COEFFICIENT
NOT TO EXCEED 0.0005% PER °C FROM 0°C TO
+60°C. TWISTED "X" CUT. CRYSTAL HOLDER
CONSISTS OF A G38A HERMETICALLY SEALED
UNIT. EIGHT PRONG WITH CRYSTAL CONTACTS
BROUGHT OUT ON PIN #3 AND #7. SHELL
2/2/43 CG:M-7466472C2 CG:M-7466472
MAY 43 REV 5

CG:40132
CONNECTION TO PIN #1. SAME AS TYPE-40063
EXCEPT FREQUENCY.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
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3.40-8

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CEE 40133 SE			CW-40140 ST			CAG-40146	LORAN C-1	RE40A138
BIMETALLIC THERMOSTAT; OPERATING TEMPERATURE IS 40°C±2°C WITH CONTACTS OPERING ON RISING TEMPERATURE. RATED 32 VDC, 530 WATTS. CONTACT CURRENT RATING IS 16.5 AMP.			CRYSTAL HOLDER ASSEMBLY; DESIGNED TO HOLD ONE IN23 TYPE CRYSTAL. OVERALL DIMENSIONS ARE 3/4" DIAM. AND 1 3/32" THICK. CRYSTAL HELD IN ASSEMBLY BY A WIRE SPRING & IS SECURED AGAINST ROTATION WHEN PRESSURE IS EXERTED ON THE 6 PRONGS OF THE CHUCK.			THERMOMETER-ANGLE 60°C; 60° NOMINAL; CALIBRATED 57° TO 63°C. GRADUATED EACH 1/10°C. CALIBRATION STEM 1/4" DIAM. BY 1 3/4" LONG; BULB STEM 1/4" DIAM. BY 4 3/4" LONG.		
2/21/43	CEE:MS-010-1A	CW:BA-10030	7/12/44	80-17469-1	CW:80-17469 ISS 4	9/5/44	139-509	CAEV:-14-A1756
MAY 43		ISSUE 1	AUG. 44		BL-18144 ISS 1	FEB. 45		CDU:DD-1874-A-1
CEE 40134 HKS			CG-40141 LU-3			CPT-40147	LORAN C-1	RE40A120
THERMOSTAT; OPERATES ON 115 V AC OR DC, 55 WATTS. AND OPENS AT APPROXIMATELY 340°F ±6°F ON RISING TEMPERATURE. CONTACTS ARE SINGLE POLE, NORMALLY CLOSED AND RATED 0.5 AMPS 115 V AC OR DC.			CRYSTAL IN HOLDER; HERMETICALLY SEALED. FREQUENCY 4700 KC±1 KC IN AMBIENT OF MINUS 15°C TO 60°C AIR PRESSURE GAP TYPE.			THERMOSTAT-60°C; STYLE 3 STRAIGHT; CONTACT AT 60°C ± 0.10°. 4 1/4" LONG BY 1/4" DIA.		
4/30/43	CEE:105026	CW:BL-11781	7/14/44	K-27J181	CRB:CY-1011	9/5/44	CAG:139-503	CAEV-14-A1817
SEPT 43	CW:KS-10183	ISSUE 3	AUG. 44	G-19	ISSUE 0	FEB. 45		CDU:DD-1893-A
CSQ 40135 YL			CG-40142 HK 33			-40148	GENERAL USE	RE13A989
THERMO-SWITCH; SPST ONE CONTACT, THERMOSTATICALLY CON- TROLLED. TEMPERATURE DIFFERENTIAL IS 10°F ON OPENING AND CLOSING TEMPERATURE. TEMPERATURE SETTING OPEN AT 110°F ± 3°F, CLOSE 100°F ± 3°F. NON ADJUSTABLE TEMP- ERATURE SETTING. FLANGED RECTANGULAR			THERMOSTAT; AUTOMATIC SP NORMALLY CLOSED CONTACT. ADJUSTABLE RANGE FROM 30°F. TO 120°F. OPERATION CONTROLLED BY A BELLOW. CON- NECTED TO AN EXTERNAL BLUB, BY MEANS OF A BENDABLE CAPILLARY TUBE. AC RATING 25 AMP. 115 OR 230 VOLTS. 60-DC RATING			CONSISTS OF A MFE PHENOLIC BODY ENCLOS- ING MEANS FOR RECEIVING 10 REMOVEABLE CRYSTAL UNITS, THERMOSTATS AND HEATERS (BOOSTER TYPE HEATER) 12 VOLTS AC OR DC. FOR 70°C OPERATION. BODY HAS 24 PINS (PLUG IN).		
6/25/43	CSQ:C-4351-17	CSQ:PR-81	7/19/44	CG:4930281-90	CG:K-9031084	10/73/44	(CFT)RY451-2	(CFT)RY-451-2C
SEPT 43			AUG. 44		REV 0	NOV. 44		ISS. C
		CSQ40135			CG-40142			
		HOUNTING.			8/2.5 AMPS. NON-INDUCTIVE AT 115/230 VOLTS RESPECTIVELY.			
CRY 40136 DAS			CAY-40143 AN/ARQ-10			CAY-40150 TBL-2		
CRYSTAL HOLDER			THERMOSTAT. NON-ADJUSTABLE CLOSE AT 100°F±5°F; OPEN AT 50°F±5°F; 50°F NOMINAL DIFFERENTIAL; DOUBLE BREAK CONTACTS RATED 28.5V; 3A DC.			THERMOSTAT BIMETALLIC DISC TYPE OPENS 55°C TO 57°C - CLOSSES 40°C TO 45°C. SPST CONTACTS RATED 1.25 AMPS AT 330V MAX OR 1 AMPS AT 220V NOR- MALLY. 60 CYCLES AC. POWER FACTOR OF 1 MAY BE USED ON DC OR 60-AC BUT WHEN USED ON DC SPARK SUPPRESSOR 0.5 MFD IN SERIES 11/4/44 #S-1022784 CAY:M-7406282 JAN 45 P4 REV 15		
		CANCELLED						
7/14/43			8/2/44	STYLE 1	(CFT)NCP-118-2C-1			
NOV. 43			NOV. 44	347.000	REV C			
40137 TCS		XA 8877D	CCM-40144 UE-1			CAY-40150		
CRYSTAL HOLDER			THERMOSWITCH 2 SILVER CONTACTS. RATED 10 AMPS -110 VOLTS, 5 AMPS - 220 VOLTS AC. PROVISIONS MADE FOR LOCKING SCREWDRIIVER SLOTTED ADJUSTING SLEEVE, WHICH FOR ONE FULL TURN WILL ADJUST FOR 40°F. HAS MOUNTING FLANGE. TEMPERATURE RANGE IS -50F AND			WITH 1.0 OHM MUST BE ACROSS CONTACTS.		
12/20/43		CG:M-62664-42-1	8/16/44	S-1568	(CH)BA-39166			
MAR. 44		REV 0	NOV. 44		ISS. 3			
CANC-40139 MN SERIES		RE94198	CCM 40144			CAY-40151 TBL-2		
CRYSTAL HOLDER; 2 PRONG, PHENOLIC CASE. BANANA TYPE TER- MINALS.			±40°F.			THERMOSTAT, BIMETALLIC DISC TYPE. OPENS 25°C TO 30°C-CLOSSES 13°C TO 17°C SPST CONTACTS RATED 1.25 AMPS AT 330V MAX OR 1 AMP AT 220V NORMAL. 60 CYCLES AC. POWER FACTOR ONE. MAY BE USED ON DC OR 60- AC BUT WHEN USED ON DC SPARK SUPPRESSOR 0.5 MFD IN SERIES WITH 11/4/44 #S-1022786 CAY:M-7406282 JAN. 45 P10 REV 15		
4/7/44	GC-30	(CFL)1620-5						
JULY 44		REV A						
CHF-40139 GEN. USE		RE9485A	CFT 40145 AN/ARQ-10			CAY-40151		
CRYSTAL HOLDER; 2 PRONG, PHENOLIC CASE. FOR ONE INCH CRYSTAL 0.85 BETWEEN BANANA TYPE TER- MINALS.			CRYSTAL AND HOLDER 2 PRONG HOLDER. PHENOLIC CASE HERMETI- CALLY SEALED. CONTACT TYPE. GRADE CFG PHENOLIC. FREQUENCY 465 KC.			1.0Ω MUST BE ACROSS CONTACTS.		
5/18/44	HN-10	CHF:HN-10-AD	8/21/44	119A	CFT:RY-350-1A			
AUG. 44		REV B	OCT. 44		ISSUE A			
					CFT:LL29107-1			
					ISSUE B			

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
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Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

3.40-9

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CSQ- 40152	AN/TPS-1B		DC.		CSQ- 40157	CFT- 40162		
THERMOSTAT CONSISTS OF FORMED BIMETALLIC DISC, NORMALLY OPEN SPST SWITCH IN BAKELITE CUP. SCREW TYPE TERMINALS CLOSES 120°F ON RISING TEMPERATURE AND OPENS AT 100°F ON FALLING TEMPERATURE, CONTACTS RATED AT 1 AMP AT 125V D-C, 6.7 AMPS AT 125V, 25 12/12/44 KLIXON CW:BA-10247-2 JAN 45 C-2451-5 ISS 1						SHOWING THE CRYSTAL FREQUENCY.		
		CSQ- 40152	CW- 40158	SV		CFT- 40163	MAR, RDR	RE 16C 13
CPS. 8 AMPS AT 125V, 40 CPS AND UP. 3.4 AMPS AT 250V, 25 CPS, 4 AMP AT 250V, 40 CPS AND UP.			CRYSTAL BLOCK ASSEMBLY: UNIT HAS AN IMPEDANCE OF 50 OHMS AND CONSISTS OF HOLDER WHICH HOUSES A 1N218 OR SIMILAR INTERNATIONAL CARTRIDGE CRYSTAL. DESIGNED FOR 3 COAXIAL LEAD TERMINATION, BUT USES ONLY 2 AND A TERMINATION ASSEMBLY IS PROVIDED FOR THE THIRD. 12/29/44 BL 435350 CW:BL-435350 JAN. 45 ISS 3			CRYSTAL UNIT: QUARTZ HERMETICALLY SEALED, CORRELATED TO THE TS-110/TSM TEST SET FOR USE WITH MODELS MAR AND RDR FREQUENCY TOLERANCE ±.004% AT +75°C, ±0.007% OVER TEMP. RANGE OF +50°C TO 90°C. TYPE NUMBER TO BE FOLLOWED BY A 1/13/45 129A FEB. 45		
		CSQ- 40153	CW-40158			CFT- 40163		
THERMOSTAT: CONSISTS OF BIMETALLIC DISC NORMALLY OPEN SPST SWITCH. SCREW TYPE TERMINALS CLOSE AT 125°F ON RISING TEMPERATURE AND OPENS AT 115°F ON FALLING TEMPERATURE, CONTACTS RATED AT 10 AMPS AT 30V DC OR 110-220V AC. 12/12/44 KLIXON CW:BA-10247-26 JAN. 45 C-4351-17 ISS. 1			USES PLYSTYRENE WASHERS FOR .10 MMF BY-PASS CAPACITY AT VIDEO CONNECTION OR CAN BE SUPPLIED WITH MICA WASHERS FOR 70 MMF BYPASS CAPACITY.			DASH AND SUFFIX SHOWING CRYSTAL FREQUENCY		
		CCM- 40154	CAMQ- 40159	CDU-60073		CJQ- 40164	RDH-1,2,3	
THERMOSTAT: CARTRIDGE TYPE; OPERATING TEMPERATURES 100° TO 400°F ± .1°F. ADJUSTING SLEEVE SET TO OPERATE AT 73°F ±1° AND LOCKED IN PLACE LOCKING DEVICE SEALED WITH GLYCOL. SPST. CONTACTS RATED 5 AMPS AT 250V 10 AMPS AT 115V. LEAD WIRES 5 1/2" 12/14/44 4-732 RC CDU:DD-3266-A-1 FEB. 45			CRYSTAL IN HOLDER 1950 KC. BT CUT CRYSTAL IN 2-PRONG PHENOLIC HOLDER. ZERO TEMP. COEFFICIENT TESTED AT +50°C AND -20°C. 12/30/44 HPB CDU:30-310 JAN. 45			CRYSTAL HOLDER: PHENOLIC. FOR PERMANENT MOUNTING IN EQUIPMENT TO HOLD A RESONATOR TYPE CRYSTAL 0.725" X 0.725" OR SMALLER. HOLDER OF SPECIAL DESIGN. 1/15/45 SSF CNA:B-697 SUB 1 FEB. 45 E-908, SUB 0		
		CCI- 40154	CAMQ-40160	(CDU-60073)		CAY- 40165	YE	
#18 TINNED-ASBESTOS COVERED. CONTACTS CLOSE ON TEMP. DECREASE.			CRYSTAL IN HOLDER 1250 KC. BT CUT CRYSTAL IN 2-PRONG PHENOLIC CASE. ZERO TEMP. COEF. TESTES AT +50°C AND -20°C. 12/30/44 HPB CDU:30-427 FEB. 45			HEATER THERMOSTAT SWITCH: SP-ST RATED 110 VOLTS, 10 AMPS AC. LOAD FREQUENCY 60-. NORMALLY OPEN. TO OPEN AT 27°C TO 55°C AND CLOSE AT 1°C TO 90°C. BIMETALLIC THERMOSTAT TYPE. 1/19/45 S#1214908 CAY:H-7409202/P17 FEB. 45 REV. 15		
		CJQ- 40155	CFT- 40161	TD2	RE 16C 13	CCM- 40166	SO-3	
CRYSTAL IN HOLDER: 5000 KC ± 0.02% AT 20°C. TEMP. COEF. NOT MORE THAN 5 PARTS PER MILLION PER DEGREE C. HOLDER HAS LOW-LOSS, MOLDED BAKELITE BODY. VARIABLE PRESSURE MOUNTING. TUBE BASE PINS TO FIT 5-PRONG TUBE SOCKET. 12/20/44 HO-2 CJQ CATALOG JAN. 45 G-11, PAGE 9			CRYSTAL UNIT: CRYSTAL UNIT, QUARTZ, HERMETICALLY SEALED CORRELATED TO THE AN/TSH-1 TEST SET FOR USE WITH MODEL TD2. FREQUENCY TOLERANCE ±.004% AT 75°C, ±0.07% OVER TEMP. RANGE OF +50°C TO +90°C. TYPE NUMBER TO BE FOLLOWED BY A DASH AND SUFFIX SHOWING 1/13/45 129A FEB. 45			SPST CARTRIDGE TYPE. CONTACTS RATED 10 AMPS AT 115V 5 AMPS AT 230V. TEMPERATURE RANGE 0° TO 400° ±.1°F. CONTACTS NORMALLY CLOSED SET TO OPEN AT 89° ± 1°C AT FACTORY, SEALED WITH GLYPTAL. CONTACTS CLOSE ON TEMPERATURE DECREASE. SAME AS 1/19/45 4-732 RC CRP:L20-5106/P2 FEB. 45 REV. 6		
		CAMU- 40156	CFT- 40161			CCM- 40166		
SF, SF-1 CRYSTAL IN HOLDER: BAK TYPE DESIGNED FOR 81,940 KC ±0.030XC CALIBRATED AT 28°C; 2 PRONGS. OPERATING TEMP. RANGE 0° TO 75°C. TEMPERATURE COEFFICIENT FROM 2 TO 5 CYCLES PER MEGACYCLE PER DEG. CENTIGRADE. 12/26/44 XLS CBM:T-920-182 FEB. 45 ALT 0			THE CRYSTAL FREQUENCY.			-40154 EXCEPT LATTER BEING SET TO OPERATE AT 75°F ± .1°.		
		CSQ- 40157	CFT- 40162	RD2	RE 16C 13	CH- 40167	AN/TPS-1B	
THERMOSTAT, BIMETALLIC: CONSISTS OF BIMETALLIC DISC & SPST SWITCH, NORMALLY CLOSED. SCREW TYPE TERMINALS. OPENS AT 200°F ON RISING TEMP. AND CLOSES AT 195°F ON FALLING TEMP. CONTACTS RATED 10 AMPS AT 115V AC OR 24V 12/24/44 SEE ABOVE CW:KS-15152-01 ISS1 JAN. 45 CH:ES-529201 ISS. 1			CRYSTAL UNIT: CRYSTAL UNIT, QUARTZ, HERMETICALLY SEALED CORRELATED TO THE TS-220/TSM TEST SET FOR USE WITH MODEL RD2. FREQUENCY TOLERANCE ±.004% AT +75°C, ±0.007% OVER TEMP. RANGE OF +50°C TO +90°C. TYPE NUMBER TO BE FOLLOWED BY A DASH AND SUFFIX 1/13/45 129A FEB. 45			CRYSTAL HOLDER: DESIGNED TO HOLD A J-1 N21 CRYSTAL, HOUSED IN A BARREL AND CONSISTS OF A 50 OHM JACK AND A -481964-33 CAPACITOR CONNECTED IN SERIES TO CRYSTAL. 1/24/45 60-410163-1 CA-105040 FEB. 45 ISS. 1		
				ASSIGNED ISSUED				ASSIGNED ISSUED
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

CONFIDENTIAL

NAVSHIPS 900,109

3.40-10

Class 40—Piezo-electric Crystals and Holders—Thermometers—Thermostats

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CQB-40168	1/30/45	TCO-2	CG-40175	3/9/45	TS-173/UR	CPD-40181	3/27/45	SA-3
CRYSTAL HOLDER: MOLDED PHENOLIC CASE. 2 BANANA TYPE PIUS SPRING AND PRESSURE ELECTRODES. ACCOMO- DATES CRYSTAL APPROXIMATELY 0.7" X 0.9".	CRH:R1	8092	CRYSTAL IN HOLDER: HERMETICALLY SEALED, OCTAL BASE. FRE- QUENCY AT 20°C IS 5000 KC ±0.005%.	CBK:SK-861		THERMOSTAT SPST NORMALLY CLOSED. TEMPERATURE RANGE -50° TO 600°F. ADJUSTABLE FOR RANGE OF APPROX. 275°F TO 325°F. TEMP. ADJUSTMENT APPROX. 70°F PER FULL TURN OF ADJUSTING SCREW. CONTACTS RATED: 10 AMPS AT 115V AC, 5 AMPS AT 230V AC. WILL OPERATE UP TO 410°F (CIRCUIT APPLICATION).	CCM:6-732 RH	CPD:546-12171
	FEB. 45			MAR. 45			APR. 45	
CCH-40169	2/1/45	SU,SU-1	CCM-40176	2/23/45	SO-7H,7M	CCM-40182	3/26/45	TCZ
THERMOSWITCH: CONTACTS CCM TYPE 4-732 RF RATED 10 AMPS 115V, AND 5 AMPS 230V AC. CONTACTS SET TO OPEN WITH RISING TEMPERATURE AT 0°C± 1% FOR AC OR DC OPERATION OVER TEMP. RANGE OF -50°F TO +400°F.	S-14U3		THERMOSWITCH: SPST CARTRIDGE TYPE. CONTACT RATINGS: 60 CPS, 115V AC, 10 AMPS; 60 CPS, 220V AC 5 AMPS, NC. OPENS AT 85°C±1°C. TWO #8 AIRCRAFT WIRE LEADS, 5" LONG.	A-7U00		THERMOSWITCH CARTRIDGE TYPE. CONTACT RATINGS 10 AMPS. AT 115V 5 AMPS AT 230V. TEMP. RANGE 0-400°F. ADJUSTMENT 30°F PER TURN. CON- TACTS OPEN ON AN INCREASE IN TEMPERA- TURE. 10" LEADS.	731 RC A-9000	COL:292 2400 00
CCM:746-466 ALT 0	CCM:S-1403-S		CCM:S-1351 CRP:28-5073 SUB 7					REV 09387
2/1/45	FEB. 45		2/23/45	MAR. 45			APR. 45	
CWQ-40170	2/15/45	RAO-3	CRV-40177	3/5/45	MAR	CM-40183	3/29/45	AN/TPS-1B
CRYSTAL-IN-HOLDER: 456 KC ± 0.5 KC AND FREE OF SPURIOUS RESPONSES FOR ±10 KC. "X" CUT CRYSTAL IN 2 TERMINAL MOLDED BAKELITE HOLDER. IMPEDANCE OF ASSEMBLY AT RESONANCE TO BE LESS THAN 2000 OHMS. SEALED IN 81MAX #3901.	30A2		CRYSTAL IN HOLDER: HERMETICALLY SEALED. CRYSTAL HOLDER WITH THIRD HARMONIC CRYSTAL FOR 10066.7 KC. TOTAL MAX. DEVIATION OF .012% FOR TEMP. RANGE 0°-85°C. 1 7/8" LONG X 1 5/32" WIDE X 7/16" DEEP.	32C401G43		CRYSTAL BLOCK AND JACK ASSEMBLY: CONSISTS OF A BRASS, SILVER- PLATED, CRYSTAL BLOCK ASSEMBLY WITH A 1N213 CRYSTAL, TO WHICH ARE CONNECTED 2 COAXIAL CABLE ASSEMBLIES: ONE RG-21/U CABLE WITH FERRULE AT EACH END, & ONE RG-5/U CABLE WITH FERRULE AT ONE END AND 3/29/45 BL-460097	BA-106771	ISS. 2
2/15/45	MAR. 45		2/23/45	MAR. 45			APR. 45	
CAOR-40171	2/20/45	080	CG-40178	3/5/45	SP-1M	CM-40183	3/29/45	AN/TPS-1B
DRIFT COMPENSATOR: CONSISTS OF COPPER CORE IN ONE END OF WHICH IS IMBEDDED AN IRON-CONSTANT AND THERMOCOUPLE. CORE IS WOUND WITH APPROX- IMATELY 90 TURNS OF 6.3 MIL DSC WIRE. 125 OHMS DC RES. ENTIRE CORE ASSEMBLY IS INSULATED IN GLASS TAPE AND SEALED IN	CAOR:H1153		CRYSTAL IN HOLDER: STANDARD OCTAL TUBE BASE HERMETICALLY SEALED 81.950 KC±0.01% FOR CRYSTAL OSC- ILLATOR. PIN CONNECTIONS TO HOLDER: -#1 TO SHELL, #3 TO CRYSTAL HIGH POT TERMINAL, #7 TO CRYSTAL LOW POT TERMINAL. ALL OTHER PINS UNCONNECTED. TEMP. COEF. 3/5/45 32C401G43	CG:K-56-J453		CRYSTAL BLOCK AND JACK ASSEMBLY: CONSISTS OF A BRASS, SILVER- PLATED, CRYSTAL BLOCK ASSEMBLY WITH A 1N213 CRYSTAL, TO WHICH ARE CONNECTED 2 COAXIAL CABLE ASSEMBLIES: ONE RG-21/U CABLE WITH FERRULE AT EACH END, & ONE RG-5/U CABLE WITH FERRULE AT ONE END AND 3/29/45 BL-460097	BA-106771	ISS. 2
2/20/45	MAR. 45		2/23/45	MAR. 45			APR. 45	
CAOR-40171			CG-40178			CM-40183		
CAN. TERMINALS HAVE A FIVE PRONGED PLUG.			OF FREQ. NOT OVER 0.0005%/DEGREE C OVER -40°C TO +60°C.			A UG-11/U COAXIAL JACK, WITH PLATE AND MOUNTING RING ADDED, AT OTHER END.		
CAMQ-40172	2/21/45	DBM	CEE-40179	3/10/45	QGB	CAWM-40184	4/2/45	TEB
CRYSTAL HOLDER: MOLDED PHENOLIC CASE, 2 BANANA TYPE PINS 2.03" OVERALL LENGTH X 1.375" WIDTH X 0.5" DEPTH. ARMY TYPE OC-34-E.	CDU:30-570		THERMOSTAT: NORMALLY CLOSED CONTACTS. OPERATING TEMPERATURE 30°C±3°. CIRCUIT TO BE MADE WITH DECREASE OF TEMPERATURE AND BROKEN WITH INCREASE OF TEMPERATURE. RATED 660 WATTS AT 115 VOLTS. MAX. AMP -8 AMPS, MAX WATTAGE -1000; MAX VOLTAGE 3/10/45 CEE:46-08-28 CRV:W-303084P173	CRV:K818333-4 REV 9		THERMOSTAT 1 STATIONARY AND 1 MOVABLE CONTACT; CON- TACTS RATED 330 WATT MAX. 220V AC. OPE- RATING TEMP. -45° TO 260°C.	99005-15X	REV 0
2/21/45	MAR. 45		3/10/45	MAR. 45			APR. 45	
CRV-40173	2/23/45	SA	CEE-40179	3/21/45		CCM-40185	4/4/45	MK-3 MOD 2
CRYSTAL IN HOLDER: V-CUT QUARTZ CRYSTAL CUT TO 81.964KC±0.1 % OVER TEMP. RANGE OF 0° TO 60°C. TEMP. COEF. 0.0002%/°C. CALIBRATION TEMP. 30°C. 3-PIN PHENOLIC HOLDER.	VC-5K		-240 AC OR DC; MAX TEMP 600°F.			THERMOSWITCH SPST CONTACTS RATED 10 AMPS, 115 VOLTS, 5 AMPS, 230 VOLTS. TEMPERATURE RANGE -100° TO 400°F. SENSITIVITY ±0.1°F. CON- TACTS CLOSE ON TEMPERATURE DECREASE.	751 C	SKETCH
2/23/45	MAR. 45			APR. 45			APR. 45	
CRV-40174	2/23/45	SA-2	CTB-40180	3/21/45	GEN. SONAR USE RE13A759A	CAOR-40186	4/9/45	TS-268/U
CRYSTAL IN HOLDER: SAME AS -40173 EXCEPT FOR MOUNTING DI- MENSIONS.	VC-5K1		BATHYTHERMOGRAPH (SURFACE) DEPTH RANGE: 0 TO 900 FT. TEMPERATURE RANGE: 30° TO 90°F.			CRYSTAL RECTIFIER HOLDER FOR 1N21 AND 1N23 CRYSTAL RECTIFIERS. BODY-TON MOLDING CO. TYPE 120 MODIFIED BY CAOR. MADE OF CFG MOLDED PHENOLIC MA- TERIAL. OVERALL DIMENSIONS APPROX. 1" X 9/16" X 11/16".	CAOR:H-1195	CHANGE 0
2/23/45	MAR. 45		(NXST-91967)	APR. 45			APR. 45	

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CSQ-40187	SC-4		CEE-40193	TDQ		CM-40200	TS-251/UP	
THERMOSTAT MOTOR DYNAMO AMPLIFIER OVERLOAD RESET. NON-TRIP FREE TYPE. RATED IN AMPS 25 AMPS. OPEN CIRCUIT BY CURRENT OVERLOAD. VOLTAGE RATING NOT APPLICABLE IN THAT IT IS CURRENT OPERATED.			THERMOSTAT SPST. NORMALLY CLOSED. CONTACTS TO OPEN ON RISING TEMPERATURE. RATED 110 VOLTS, 30 WATTS. 60 CYCLES. OPERATING TEMPERATURE ADJUSTMENT 80°C.			CRYSTAL UNIT: QUARTZ CRYSTAL, GLASS ENCLOSED, VACUUM SEALED WITH OCTAL BASE. DESIGNED FOR USE ON -1817.44 CYCLES ±0.3 CYCLES AT 75°F. HAS SILVER PLATED ELECTRODES, RES AT 75°F IS 30,000 OHMS MAX, MAX CURRENT THROUGH CRYSTALS IS 0.030 MILLIAMPERES. 5/24/45 D-170130 JUN. 45		
4/17/45	D-6751-2-25	CG:K-7101489	4/24/45	SI-1	CRV:K-884773 P3			
MAY 45		PIG. REV 1	MAY 45		REV 2			
CG-40188	SC-4		CCM-40194	AN/CPN-6		CG-40201	QGB	
THERMOSTAT SPST. NORMALLY CLOSED. THERMOSTATICALLY CONTROLLED BY LIQUID IN BELLOWS ASSEMBLY. CONTACTS RATED 0.5 AMPS. 115V DC 0.2 AMPS. 230V DC. TEMPERATURE RANGE 70° TO 170°F. MAX. RATING 220 VOLTS, 25 AMPS AC. *CG:K-7106489			THERMOSWITCH: SPST. NORMALLY OPEN. CAPACITY -115V, 10 AMP. 230V 5 AMP AC. OPERATING TEMPE- RATURE -100° (+1°-0°)C. TWO TINNED COPPER WIRE LEADS 8.500" LG.			THERMOSTAT: SPST NORMALLY CLOSED. CONTACTS RATED 45 AMPS. AT 115V AC. 20 AMPS AT 250V AC. 2 AMPS AT 115V DC. MOTOR LOCKED ROTOR. TRIP TEMPERATURE 90°-100°C. RESET TEM- PERATURE NOT BELOW 65°C. SAME AS -40202 EXCEPT FOR HAVING A 2" TUBE LENGTH. 5/24/45 M-5845495AE1 CG:M-5845495AE JUN. 45 GRI REV. 3		
4/17/45	TYPE CR-2992-P1	CC:M-7472530	5/9/45	S-1564	CGG-403103156			
MAY 45	CAT. #4980281 G92	REV 0 *	JUN. 45		REV. B *			
			CG-40188			CG-40202	QGB	
			APPROX. WT. 1 1/2 LBS. USED ON TRANS- MISSION LINE.			THERMOSTAT: SPST NORMALLY CLOSED. CONTACTS RATED 45 AMPS. AT 115V AC. 20 AMPS AT 250V AC. 2 AMPS AT 115V DC. MOTOR LOCKED ROTOR. TRIP TEMPERATURE 90°-100°C. RESET TEM- PERATURE NOT BELOW 65°C. SAME AS -40201 *CG:K-3701019 5/25/45 M-5845495AL1 CG:M-5845495AL JUN. 45		
CG-40189	SC-4		CG-40196	AN/CPN-6		CG-40202		
THERMOSTAT SPST. NORMALLY CLOSED. THERMOSTATICALLY CONTROLLED BY LIQUID IN BELLOWS ASSEMBLY. CONTACTS RATED 0.5 AMPS. 115V DC. 0.2 AMPS. 230V DC. TEMP. RANGE -40° TO 158°F MAX. RATING 220 VOLTS, 25 AMP. AC. *REV 0. (FOR DIM.) CG:K-7106989			THERMOSWITCH: SPST. NORMALLY OPEN. CAPACITY -115V, 10 AMP. 230V 5 AMP AC. OPERATING TEMPE- RATURE -97° (+0°-1°)C. TWO TINNED COPPER WIRE LEADS 8.500" LG.			EXCEPT FOR HAVING A 5/8" TUBE LENGTH.		
4/17/45	TYPE CR-2992-R3	CG:M-7472530	5/9/45	S-1565	CGG-403103156			
MAY 45	CAT #4980285 G4	*SEE ABOVE	JUN. 45		REV. B *			
			CG-40197	FSA		CG-40204	CAN-55181	
			APPROX. WT. 1 1/2 LBS. USED ON TRANS- MISSION. SIMILAR TO -40188.			THERMOSTAT: BIMETALLIC, DISK TYPE. OPERATING TEM- PERATURE: OPENS AT 57°F ±3° AND CLOSSES AT 37°F ±4°. SPST, SILVER CONTACTS RATED 8 AMPS AT 30V DC OR 125V AC.		
CG-40190	VF		CG-40197			CG-40204		
THERMOSWITCH CARTRIDGE TYPE -BRASS. SILVER CONTACTS RATED 10 AMPS. AT 115 VOLTS, 5 AMPS. AT 230 VOLTS. TEMPERATURE RANGE 0° TO 400°F ±0.1°F NORMALLY CLOSED BELOW 75°C.			THERMOSWITCH: SPST, CONTACTS RATED 10 AMPS, 115V; 5 AMPS. 230V AC. EXPANDING SHELL TYPE. OPENS WITH INCREASING TEMPERATURE RANGE -50°F SET AT 62°C (144°F). ENCLOSED IN ELECTRO-TINNED SEAMLESS BRASS SHELL WITH *S-2123-S 4/25/45 5/10/45 S-2123-S S-1568-S JUN. 45 6/7/44 *			5/25/45 PH27-1A CYV27-A-1 JUN. 45 CAM:52 MOD. CAM99005 REV 0		
4/21/45	732RC	CRP:28-5154	CG-40198	FSA		CG-40204	CAN-55181	
MAY 45			FLANGE WITH FOUR HOLES FOR MOUNTING.			THERMOSTAT: BIMETALLIC, DISK TYPE. OPERATING TEM- PERATURE: OPENS AT 57°F ±3° AND CLOSSES AT 37°F ±4°. SPST, SILVER CONTACTS RATED 8 AMPS AT 30V DC OR 125V AC.		
CGM-40191	VF		CG-40198			CG-40204		
THERMOSWITCH SPST CONTACTS RATED 10 AMPS 115 VOLTS, 5 AMPS. 230 VOLTS. ADJUSTED TO CLOSE AT 70°C. NORMALLY OPEN BELOW 67°. TWO LOCK & GLYPTAL GREEN STANDARD LEADS 3" LONG.			TEMPERATURE GAUGE: ANGLE TYPE, GRADUATED 0 TO 100°C ON A 300° SCALE ARC, 100 SCALE DIVISIONS. BLACK DIAL AND BEZEL, WHITE POINTER AND CHARACTERS, EMPLOYS BI-METAL MULTIPLE HELIX TO ACTUATE POINTER. 1/2" STANDARD PIPE THREAD FOR MOUNTING. 5/10/45 MODEL 221-D C.O.95410 JUN. 45 SPECIAL			5/29/45 #C-2851-11 CAN-800195 JUN. 45 ALT. 2		
4/21/45	4-732 IC	CRP:L28-5147	CG-40199	MARK 8				
MAY 45		SUB 1	THERMOSTAT: GLASS ENCLOSED THERMOSTAT FOR USE IN METAL CASING. CONTACTS TO CARRY 0.3 AMPS. 110V AC. 60 CYCLES. 35 WATTS. NON-INDUCTIVE LOAD. NORMALLY CLOSED. OPENS ON RISE AT 140°F±1.5.					
CEE-40192	TDQ		4/24/45	SI-1	CRV:K-884773 P4			
THERMOSTAT SPST NORMALLY CLOSED. CONTACTS TO OPEN ON RISING TEMPERATURE. RATED 110 VOLTS, 30 WATTS. 60 CYCLES. OPERATING TEMPERATURE ADJUSTMENT 70°C.			4/24/45	SI-1A	CRV:K-884773 P4			
			MAY 45		REV 2			
						5/24/45	SI-1A	CRV:K-884773 P4
						JUN. 45		ISS. 4

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
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