TABLE I. DEVICE PARAMETERS 1/

JPL PART NO. ST12116-	PART NO. TO BE MARKED ON PART 12116-	MFR. PART NO. MCM-	JPL USE	FREQ. X IN MHz	TID RADS (Si)	CASE OUT-LINE 2/	PINOUTs 2/	ELECTRICAL PERF. CHARACTER-ISTICS 2/	ICC MAX mA	SCREENING REQMTS. 2/	QCI REQMTS. 2/
2X88ØØ	EM2.88ØØ	1852-17	EM	2.88ØØ	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
2R88ØØF	X2.88ØØFR	1852-18	FLT	2.88ØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
4X8384	EM4.8384	1852-1	EM	4.8384	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
4R8384F	X4.8384FR	1852-2	FLT	4.8384	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
8X192Ø	EM8.192Ø	1852-15	EM	8.192Ø	5/	FIG. 1a	FIG. 2a	TABLE I 8/	25	5/	5/
8R192ØF	X8.192ØFR	1852-16	FLT	8.192Ø	1ØØk	FIG. 1a	FIG. 2a	TABLE I 8/	25	TABLE III	TABLE IV
8X192ØB	EM8.192ØB	1852-27	EM	8.192Ø	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
8R192ØFB	X8.192ØFRB	1852-28	FLT	8.192Ø	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
9X12ØØ	EM9.12ØØ	1852-23	EM	9.12ØØ	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
9R12ØØF	X9.12ØØFR	1852-24	FLT	9.12ØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
1ØXØØØØ	EM1Ø.ØØØØ	1852-21	EM	1Ø.ØØØØ	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
1ØRØØØØF	X1Ø.ØØØØFR	1852-22	FLT	1Ø.ØØØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
11X9448	EM11.9448	1852-11	EM	11.9448	5/	FIG. 1b	FIG. 2b	TABLE I 7/	6/	5/	5/
11R9448F	X11.9448FR	1852-12	FLT	11.9448	1ØØk	FIG. 1b	FIG. 2b	TABLE I 7/	6/	TABLE III	TABLE IV
12XØØØØ	EM12.ØØØØ	1852-3	EM	12.ØØØØ	5/	FIG. 1a	FIG. 2b	TABLE I	6/	5/	5/
12RØØØØF	X12.ØØØØFR	1852-4	FLT	12.ØØØØ	1ØØk	FIG. 1a	FIG. 2b	TABLE I	6/	TABLE III	TABLE IV
13X5ØØØ	EM13.5ØØØ	1852-5	EM	13.5ØØØ	5/	FIG. 1a	FIG. 2a	TABLE I	1Ø	5/	5/
13S5ØØØF	X13.5ØØØFS	1852-6	FLT	13.5ØØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	1Ø	TABLE III 3/	TABLE IV 4/
14X515Ø	EM14.515Ø	1852-7	EM	14.515Ø	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
14R515ØF	X14.515ØFR	1852-8	FLT	14.515Ø	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
14X7456	EM14.7456	1852-19	EM	14.7456	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
14R7456F	X14.7456FR	1852-2Ø	FLT	14.7456	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
14X8ØØØ	EM14.8ØØØ	1852-13	EM	14.8ØØØ	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
14R8ØØØF	X14.8ØØØFR	1852-14	FLT	14.8ØØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
2ØXØØØØ	EM2Ø.ØØØØ	1852-25	EM	2Ø.ØØØØ	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
2ØRØØØØF	X2Ø.ØØØØFR	1852-26	FLT	2Ø.ØØØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV
25XØØØØ	EM25.ØØØØ	1852-9	EM	25.ØØØØ	5/	FIG. 1a	FIG. 2a	TABLE I	25	5/	5/
25RØØØØF	X25.ØØØØFR	1852-1Ø	FLT	25.ØØØØ	1ØØk	FIG. 1a	FIG. 2a	TABLE I	25	TABLE III	TABLE IV

NOTES: 1/ THIS DRAWING, IN CONJUNCTION WITH CS515574, IMPOSES ALL REQUIREMENTS FOR PROCUREMENT OF THESE DEVICES.
2/ REFER TO CS515574.
3/ TABLE III, STEP 7, IS REQUIRED. (NSCAT REQUIREMENT)
4/ TABLE IV, POST GROUP C, RANDOM VIBRATION TEST IS REQUIRED. TABLE VII, GROUP C, SUBGROUP 1 RANDOM VIBRATION TEST IS NOT REQUIRED.
5/ NOT APPLICABLE.

RELEASED THRU SECTION 356 DATA MANAGEMENT: DATE:

REVISION: G APPROVED BY: DATE: 2/27/95

APPROVED SOURCE(S)

VENDOR PART NO.	VENDOR	JPL PART NO.
1852 SERIES (SEE TABLE I)	Q TECH CORPORATION CULVER CITY, CA 90232-3510 CAGE NO. 51774	SEE TABLE I

ONL THE ITEM LISTED IN THE APPROVED SOURC BLOCK AND IDENTIFIED BY VEND- OR NAME, ADDRESS, AND PART NUMBER HA BEEN EVALUATED AND APPROVED BY THE JET PROPULSION LABORATORY OR IT DELEGATED ALTERNATE. A SUBSTI- TUTE ITEM SHALL NOT BE USED WITHOU PRIOR EVALUATION AND APPROVAL BY JPL OR ITS DELEGATED ALTERNATE

JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY CAGE NO. 23835

Procurement specification: CS515574
Screening specification: ZPP-2Ø73-GEN

TITLE: INTERGRATED CIRCUIT, HYBRID, CRYSTAL OSCILLATORS

DETAIL SPECIFICATION

ST 12116

SHEET 1 OF 2

Custodian: Electronic Parts Engineering Section 507

FILE: (Sec.507): F:\USERS\rkarpen\specs\ST12116.G

NOTES: (CONTINUED)

6/ 1ØmA MAXIMUM IN INTERNAL MODE, 25 mA MAXIMUM IN EXTERNAL MODE FOR FREQUENCIES UP TO 30 MHZ (CONTACT PART SPECIALIST FOR APPLICATIONS ABOVE 30 MHZ).

7/ OUTPUT FREQUENCY SHORT TERM STABILITY*= 11.9448 MHZ ± 0.347 ppm. (* OVER AN 8 HOUR PERIOD, 15 °C ± 5 ° C TEMPERATURE CHANGE AND 5V ± 100 mV VOLTAGE VARIATION.)

8/ OUTPUT FREQUECY OVER 0 °C TO 50 °C TEMPERATURE RANGE = 8.192 MHZ ± 12 ppm.

9. THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

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