

Component-Level Information Packet

for 08593-60016

Third Converter Option E02 for HP 8593A

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HP Part Number 08593-60016
Third Converter Option E02

Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
C1	0160-4799	2	1	CAP-FXD 2.2pF 100 V	02010	MA101A2R2CAAH
C2	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C3	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C4	0160-4382	9	1	CAP-FXD 3.3pF 200 V	06352	FD12C0G2D3R3C
C5	0160-4790	3	1	CAP-FXD 12pF 100 V	02010	SA102A120JAAH
C6	0160-4794	7	1	CAP-FXD 5.6pF 100 V	02010	SA102A5R6DAAH
C7	0160-4795	8	1	CAP-FXD 4.7pF 100 V	02010	SA102A4R7DAAH
C8	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C9	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C10	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C11	0160-4795	8	1	CAP-FXD 4.7pF 100 V	02010	SA102A4R7DAAH
C12	0160-4790	3	1	CAP-FXD 12pF 100 V	02010	SA102A120JAAH
C13	0160-4793	6	1	CAP-FXD 6.8pF 100 V	02010	SA102A6R8DAAH
C14	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C15	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C16	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C17	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C18	0160-4801	7	1	CAP-FXD 100pF 100 V	02010	SA102A101JAAH
C19	0180-4130	7	1	CAP-FXD 2.2uF 20 V TA	04200	173D225X9020V
C20	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C21	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C22	0160-4805	1	1	CAP-FXD 47pF 100 V	02010	SA102A470JAAH
C23	0160-4805	1	1	CAP-FXD 47pF 100 V	02010	SA102A470JAAH
C24	0160-4805	1	1	CAP-FXD 47pF 100 V	02010	SA102A470JAAH
C25	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C26	0160-4799	2	1	CAP-FXD 2.2pF 100 V	02010	MA101A2R2CAAH
C27	0180-4132	9	1	CAP-FXD 6.8uF 35 V TA	04200	173D685X9035X
C28	0160-4822	2	1	CAP-FXD 1000pF 100 V	02010	SA201A102JAAH
C29	0180-4130	7	1	CAP-FXD 2.2uF 20 V TA	04200	173D225X9020V
C30	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C31	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C32	0160-4389	6	1	CAP-FXD 100pF 200 V	02010	SR202A101JAAH
C34	0180-4134	1	1	CAP-FXD 22uF 15 V TA	04200	173D226X9015X
C36	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C37	0160-4554	7	1	CAP-FXD 0.01uF 50 V	02010	SA105C103MAAH
C38	0160-4523	0	1	CAP-FXD 16pF 200 V	06352	FD12C0G2D160J
C39	0160-4574	1	1	CAP-FXD 1000pF 100 V	02010	SA101C102KAAH
C41	0160-4798	1	1	CAP-FXD 2.7pF 100 V	02010	MA101A2R7CAA
C43	0160-4795	8	1	CAP-FXD 4.7pF 100 V	02010	SA102A4R7DAAH
C44	0121-0444	4	1	CAP-VAR 9pF 3pF 160 V	01468	302-450-204
C45	0160-4795	8	1	CAP-FXD 4.7pF 100 V	02010	SA102A4R7DAAH
C46	0121-0444	4	1	CAP-VAR 9pF 3pF 160 V	01468	302-450-204
C47	0121-0444	4	1	CAP-VAR 9pF 3pF 160 V	01468	302-450-204
C48	0160-4796	9	1	CAP-FXD 3.9pF 100 V	02010	SA101A3R9CAAH
C49	0160-3872	0	1	CAP-FXD 2.2pF 200 V	06352	FD12C0G2D2R2C
C50	0160-4809	5	1	CAP-FXD 390pF 100 V	02010	SA101A391JAAH
C51	0160-5348	9	1	CAP-FXD 51pF 100 V	02010	SA102A510JAAH
C52	0160-3873	1	1	CAP-FXD 4.7pF 200 V	06352	FD12C0G2D4R7D

**Indicates factory-selected value*

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C53	0160-5413	9	1	CAP-FXD 160pF 100 V	02010	SA101A161JAAH
C54	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C55	0160-5422	0	1	CAP-FXD 0.047uF 50 V	02010	SA205C473MAAH
C56	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C57	0160-4831	3	1	CAP-FXD 4700pF 100 V	02010	SA101C472KAAH
C58	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C59	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C61	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C62	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C63	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C64	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C65	0160-4535	4	1	CAP-FXD 1uF 50 V	02010	SR305C105KAAH
C66	0160-3873	1	1	CAP-FXD 4.7pF 200 V	06352	FD12C0G2D4R7D
C67	0160-3873	1	1	CAP-FXD 4.7pF 200 V	06352	FD12C0G2D4R7D
C68	0160-4383	0	1	CAP-FXD 6.8pF 200 V	06352	FD12C0G2D6R8D
C69	0160-4490	0	1	CAP-FXD 1.8pF 200 V	06352	FD12C0G2D1R8C
C70	0160-4801	7	1	CAP-FXD 100pF 100 V	02010	SA102A101JAAH
C71	0160-4834	6	1	CAP-FXD 0.047uF 100 V	02010	SA301C473KAAH
C72	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C73	0160-4380	7	1	CAP-FXD 1pF 200 V	06352	FD11C0K2D1R0C
C74	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C75	0160-4382	9	1	CAP-FXD 3.3pF 200 V	06352	FD12C0G2D3R3C
C76	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C77	0160-4832	4	1	CAP-FXD 0.01uF 100 V	02010	SA101C103KAAH
C78	0160-4790	3	1	CAP-FXD 12pF 100 V	02010	SA102A120JAAH
C79	0160-3879	7	1	CAP-FXD 0.01uF 100 V	02010	SR201C103MAAH
C80	0160-4383	0	1	CAP-FXD 6.8pF 200 V	06352	FD12C0G2D6R8D
CR1	0122-0161	4	1	DIODE-VVC 2.15PF 7% BVR=30V	03334	BB405B
CR2	1901-1070	9	1	DIODE-PIN 110V	02062	
J1	1252-2816	6	1	CONN-POST TYPE .100 PIN SPCG 20 CONT	01380	5-87729-6
J2	1250-1955	8	1	CONNECTOR-RF SMB M PC 50-OHM	02788	5164-5008-09
J3	1250-1955	8	1	CONNECTOR-RF SMB M PC 50-OHM	02788	5164-5008-09
J4	1250-1955	8	1	CONNECTOR-RF SMB M PC 50-OHM	02788	5164-5008-09
J5	1250-1955	8	1	CONNECTOR-RF SMB M PC 50-OHM	02788	5164-5008-09
J6	1252-2816	6	1	CONN-POST TYPE .100 PIN SPCG 20 CONT	01380	5-87729-6
J7	1250-0691	7	1	CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	05769	051-045-4610-220
L1	9100-2251	0	1	INDUCTOR RF-CH-MLD 220NH +-10% .105D-INX	03273	10M220K
L3	9135-0075	5	1	INDUCTOR RF-CH-MLD 43NH +-6.047%	02172	
L4	9100-2256	5	1	INDUCTOR RF-CH-MLD 560NH +-10% .105D-INX	03273	10M560K
L5	9100-2247	4	1	INDUCTOR RF-CH-MLD 100NH +-10% .105D-INX	03273	10M100K
L6	9100-2255	4	1	INDUCTOR RF-CH-MLD 470NH +-10% .105D-INX	03273	10M470K
L7	9100-2255	4	1	INDUCTOR RF-CH-MLD 470NH +-10% .105D-INX	03273	10M470K
L9	9100-2891	4	1	INDUCTOR RF-CH-MLD 50NH +-10% .105D-INX.	03273	10M050K-1
L10	9140-0736	6	1	INDUCTOR-FIXED L:200 UH MIN @ 0.35 ADC,1	04200	
L11	9100-2256	5	1	INDUCTOR RF-CH-MLD 560NH +-10% .105D-INX	03273	10M560K
L12	9100-2250	9	1	INDUCTOR RF-CH-MLD 180NH +-10% .105D-INX	03273	10M180K
L13	9100-3552	6	1	INDUCTOR RF-CH-MLD 1.5UH +-5% .166D-INX.	03273	15M151J

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L14	9100-3562	8	1	INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX.	03273	15M471J
L16	9100-3562	8	1	INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX.	03273	15M471J
L18	9135-0068	6	1	INDUCTOR RF-CH-MLD 33NH +-6.36%	02172	
L20	9100-2250	9	1	INDUCTOR RF-CH-MLD 180NH +-10% .105D-INX	03273	10M180K
L22	9100-2251	0	1	INDUCTOR RF-CH-MLD 220NH +-10% .105D-INX	03273	10M220K
L24	9100-2255	4	1	INDUCTOR RF-CH-MLD 470NH +-10% .105D-INX	03273	10M470K
L25	9100-2247	4	1	INDUCTOR RF-CH-MLD 100NH +-10% .105D-INX	03273	10M100K
L26	9135-0077	7	1	INDUCTOR 36NH +-6.389% 2.6D-MMX6.6LG-MM	03273	10M036X-1
MP2	2190-0124	4	5	WASHER-LK INTL T NO. 10 .195-IN-ID	02788	500222
MP3	2950-0078	9	5	NUT-HEX-DBL-CHAM 10-32-THD .067-IN-THK	03316	HN100-11
MP4	2200-0101	0	2	SCREW-MACH 4-40 .188-IN-LG PAN-HD-POZI	01125	
MP5	5001-8774	0	1	COVER, THIRD CONVERTER	28480	5001-8774
MP6	86701-40001	9	1	PC BOARD EXTRACTOR	28480	86701-40001
MP7	1200-0173	5	1	INSULATOR-XSTR DAP-GL	02210	A-10001 DAP
MP8	3050-0945	2	4	WASHER-FL MTLT NO. 10 .2-IN-ID .33-IN-OD	05313	5714-165-063
MP9	5001-5539	9	1	GROUND STRAP	28480	5001-5539
MP10	5001-5539	9	1	GROUND STRAP	28480	5001-5539
Q1	1853-0451	5	1	TRANSISTOR PNP 2N3799 SI TO-18 PD=360MW	02037	
Q2	1854-0720	3	1	TRANSISTOR NPN SI PD=500MW FT=4GHZ	03334	
Q4	1854-0632	6	1	TRANSISTOR NPN SI PD=180MW FT=4GHZ	02037	
Q5	1853-0451	5	1	TRANSISTOR PNP 2N3799 SI TO-18 PD=360MW	02037	
Q6	1854-0720	3	1	TRANSISTOR NPN SI PD=500MW FT=4GHZ	03334	
Q7	1853-0007	7	1	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	02037	2N3251
Q8	1854-1142	5	1	TRANSISTOR NPN SI TO-92 PD=625MW FT=6GHZ	02037	MPS571
Q9	1853-0451	5	1	TRANSISTOR PNP 2N3799 SI TO-18 PD=360MW	02037	
Q10	1854-0632	6	1	TRANSISTOR NPN SI PD=180MW FT=4GHZ	02037	
Q11	1854-0215	1	1	TRANSISTOR NPN SI TO-92 PD=625MW FT=300M	00746	2N3904
Q12	1853-0451	5	1	TRANSISTOR PNP 2N3799 SI TO-18 PD=360MW	02037	
Q13	1854-0946	5	1	TRANSISTOR NPN SI PD=290MW	00039	NE02135
R1	0698-7257	2	1	RESISTOR 7.5K +-1% .05W TF TC=0+-100	00746	CRB20
R2	0698-7253	8	1	RESISTOR 5.11K +-1% .05W TF TC=0+-100	00746	CRB20
R3	0698-7247	0	1	RESISTOR 2.87K +-1% .05W TF TC=0+-100	00746	CRB20
R4	0699-2069	6	1	RESISTOR 13.3 +-1% .05W TF TC=0+-100	05524	CMF-50-21
R5	0698-3445	2	1	RESISTOR 348 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R6	0698-3445	2	1	RESISTOR 348 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R7	0698-7219	6	1	RESISTOR 196 +-1% .05W TF TC=0+-100	00746	CRB20
R8	0698-7221	0	1	RESISTOR 237 +-1% .05W TF TC=0+-100	00746	CRB20
R9	0699-1903	5	1	RESISTOR 51.1 +-1% .05W TF TC=0+-100	05524	CMF-50-21
R10	0699-2079	8	1	RESISTOR 82.5 +-1% .05W TF TC=0+-100	05524	CMF-50-21
R11	0698-7219	6	1	RESISTOR 196 +-1% .05W TF TC=0+-100	00746	CRB20
R12	0698-7237	8	1	RESISTOR 1.1K +-1% .05W TF TC=0+-100	00746	CRB20
R13	0698-7188	8	1	RESISTOR 10 +-1% .05W TF TC=0+-100	00746	CRB20
R14	0698-7188	8	1	RESISTOR 10 +-1% .05W TF TC=0+-100	00746	CRB20
R15	0698-7209	4	1	RESISTOR 75 +-1% .05W TF TC=0+-100	00746	CRB20
R16	0698-7251	6	1	RESISTOR 4.22K +-1% .05W TF TC=0+-100	00746	CRB20
R17	0698-7239	0	1	RESISTOR 1.33K +-1% .05W TF TC=0+-100	00746	CRB20
R18	0698-7224	3	1	RESISTOR 316 +-1% .05W TF TC=0+-100	00746	CRB20

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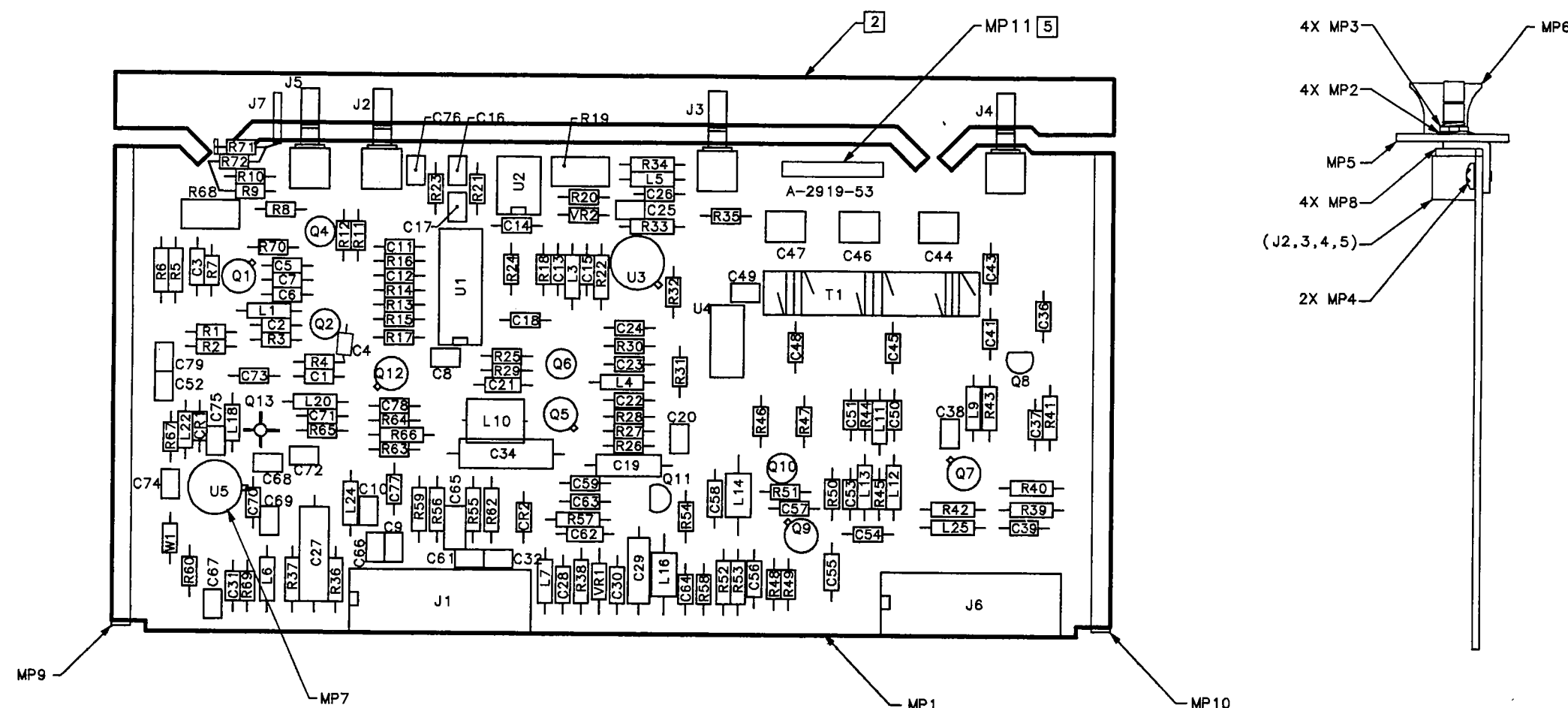
Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
R19	2100-3351	6	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ 1-TRN	03744	3386X-Y46-501
R20	0698-7238	9	1	RESISTOR 1.21K +-1% .05W TF TC=0+-100	00746	CRB20
R21	0698-7212	9	1	RESISTOR 100 +-1% .05W TF TC=0+-100	00746	CRB20
R22	0757-0416	7	1	RESISTOR 511 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R23	0698-7212	9	1	RESISTOR 100 +-1% .05W TF TC=0+-100	00746	CRB20
R24	0698-7224	3	1	RESISTOR 316 +-1% .05W TF TC=0+-100	00746	CRB20
R25	0698-7197	9	1	RESISTOR 23.7 +-1% .05W TF TC=0+-100	00746	CRB20
R26	0698-7255	0	1	RESISTOR 6.19K +-1% .05W TF TC=0+-100	00746	CRB20
R27	0698-7254	9	1	RESISTOR 5.62K +-1% .05W TF TC=0+-100	00746	CRB20
R28	0698-7212	9	1	RESISTOR 100 +-1% .05W TF TC=0+-100	00746	CRB20
R29	0698-7247	0	1	RESISTOR 2.87K +-1% .05W TF TC=0+-100	00746	CRB20
R30	0698-7192	4	1	RESISTOR 14.7 +-1% .05W TF TC=0+-100	00746	CRB20
R32	0698-7217	4	1	RESISTOR 162 +-1% .05W TF TC=0+-100	00746	CRB20
R33	0757-0402	1	1	RESISTOR 110 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R34	0757-0400	9	1	RESISTOR 90.9 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R35	0698-7210	7	1	RESISTOR 82.5 +-1% .05W TF TC=0+-100	00746	CRB20
R36	0698-3430	5	1	RESISTOR 21.5 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R37	0698-3430	5	1	RESISTOR 21.5 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R38	0698-0082	7	1	RESISTOR 464 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R39	0757-0442	9	1	RESISTOR 10K +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R40	0698-3136	8	1	RESISTOR 17.8K 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R41	0698-7253	8	1	RESISTOR 5.11K +-1% .05W TF TC=0+-100	00746	CRB20
R42	0698-3442	9	1	RESISTOR 237 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R43	0757-0280	3	1	RESISTOR 1K +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R44	0698-7205	0	1	RESISTOR 51.1 +-1% .05W TF TC=0+-100	00746	CRB20
R45	0698-7205	0	1	RESISTOR 51.1 +-1% .05W TF TC=0+-100	00746	CRB20
R46	0698-8822	9	1	RESISTOR 6.81 +-1% .125W TF TC=0+-100	01074	H8
R47	0698-8822	9	1	RESISTOR 6.81 +-1% .125W TF TC=0+-100	01074	H8
R48	0698-7261	8	1	RESISTOR 11K +-1% .05W TF TC=0+-100	00746	CRB20
R49	0698-7251	6	1	RESISTOR 4.22K +-1% .05W TF TC=0+-100	00746	CRB20
R50	0698-7243	6	1	RESISTOR 1.96K +-1% .05W TF TC=0+-100	00746	CRB20
R51	0698-7224	3	1	RESISTOR 316 +-1% .05W TF TC=0+-100	00746	CRB20
R52	0757-0405	4	1	RESISTOR 162 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R53	0757-0405	4	1	RESISTOR 162 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R54	0698-7205	0	1	RESISTOR 51.1 +-1% .05W TF TC=0+-100	00746	CRB20
R55	0757-0419	0	1	RESISTOR 681 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R56	0698-0082	7	1	RESISTOR 464 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R57	0757-0416	7	1	RESISTOR 511 +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R58	0698-7217	4	1	RESISTOR 162 +-1% .05W TF TC=0+-100	00746	CRB20
R59	0698-0084	9	1	RESISTOR 2.15K 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R60	0698-7236	7	1	RESISTOR 1K +-1% .05W TF TC=0+-100	00746	CRB20
R62	0698-0084	9	1	RESISTOR 2.15K 1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R63	0698-7260	7	1	RESISTOR 10K +-1% .05W TF TC=0+-100	00746	CRB20
R64	0698-7253	8	1	RESISTOR 5.11K +-1% .05W TF TC=0+-100	00746	CRB20
R65	0698-7253	8	1	RESISTOR 5.11K +-1% .05W TF TC=0+-100	00746	CRB20
R66	0757-0280	3	1	RESISTOR 1K +-1% .125W TF TC=0+-100	00746	CRB14 OR CRB25
R67	0698-7284	5	1	RESISTOR 100K +-1% .05W TF TC=0+-100	00746	CRB20
R68	2100-3355	0	1	RESISTOR-TRMR 100K 10% TKF SIDE-ADJ 1-TR	03744	3386X-Y46-104

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R69	0698-7260	7	1	RESISTOR 10K +-1% .05W TF TC=0+-100	00746	CRB20
R70	0698-7215	2	1	RESISTOR 133 +-1% .05W TF TC=0+-100	00746	CRB20
R71	0699-1948	8	1	RESISTOR 46.4 +-1% .05W TF TC=0+-100	05524	CMF-50-21
R72	0699-2032	3	1	RESISTOR 147 +-1% .05W TF TC=0+-100	05524	CMF-50-21
T1	08558-80003	6	1	COIL, BANDPASS FILTER	28480	08558-80003
U1	1820-3485	2	1	IC PRESCR ECL	02037	MC12090L
U2	1826-0372	2	1	IC MISC 8-DIP-P PKG	01876	A251-0100
U3	1813-0211	1	1	IC WIDEBAND AMPL TO-39 PKG	02037	MWA110
U4	0955-0113	1	1	U-WAVE MIXER 1 GHZ MAX	02739	TFM-2-38
U5	0410-2119	7	1	RESONATOR-SURF ACST W FREQUENCY:600 MHZ	12127	RP-1192-2
VR1	1902-0025	4	1	DIODE-ZNR 10V 5% DO-35 PD=.4W TC=+.06%	02037	
VR2	1902-0949	1	1	DIODE-ZNR 4.3V 5% DO-35 PD=.4W TC=+.017%	02037	
W1	8159-0005	0	1	RESISTOR-ZERO OHMS 22 AWG LEAD DIA	01339	L-2007-1

**Indicates factory-selected value*

D -08593-60016-2			
SYM	REVISIONS	APPROVED	DATE
A			



NOTES: UNLESS OTHERWISE SPECIFIED

1. DIMENSIONS ARE IN INCHES.
2. REMOVE TABS AFTER WAVE SOLDER.
3. MAXIMUM COMPONENT HEIGHT .400.
4. MAX LEAD TRIM .100.

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		DRAWN BY		DATE	
TOLERANCES: XX:XXX ±.015		ENGINEER/CHECKER			
SEE CORP. STD. 808		RELEASED TO PROD.			
		SUPERSEDES DWG.			
BOARD ASSEMBLY- 3RD CONVERTER				TITLE	
NONE				SCALE	
SHEET 1 of 1				PART NUMBER	
D -08593-60016-2				08593-60016	



