

SEMICONDUCTOR DATA FOR FCC ID:ALH32943220**Model Name:TK-8102H(K2) Display Unit**

SYMBOL	PARTS NUMBER	PARTS NAME	DISCRIPTION
D1	B30-2238-05	LED	KEY BACKLIT
D2	B30-2238-05	LED	KEY BACKLIT
D3	B30-2238-05	LED	KEY BACKLIT
D4	B30-2238-05	LED	KEY BACKLIT
D5	B30-2239-05	LED	MONITOR KEY LIGHT
D6	B30-2239-05	LED	PROGRAMMABLE KEY LIGHT
D7	B30-2239-05	LED	CHANNEL KEY LIGHT
D8	B30-2239-05	LED	CHANNEL KEY LIGHT
D9	B30-2239-05	LED	CHANNEL KEY LIGHT
D10	B30-2239-05	LED	CHANNEL KEY LIGHT
D11	B30-2237-05	LED	BUSY KEY LIGHT
D12	B30-2240-05	LED	TRANSMIT KEY LIGHT
Q1	KRC102S	TRANSISTOR	MONITOR KEY LIGHT SW
Q2	KRC102S	TRANSISTOR	CHANNEL KEY LIGHT SW
Q3	KRC102S	TRANSISTOR	CHANNEL KEY LIGHT SW
Q4	KRC102S	TRANSISTOR	BUSY KEY LIGHT SW
Q5	KRC102S	TRANSISTOR	PROGRAMMABLE KEY LIGHT SW
Q6	KRC102S	TRANSISTOR	CHANNEL KEY LIGHT SW
Q7	KRC102S	TRANSISTOR	CHANNEL KEY LIGHT SW
Q8	KRC102S	TRANSISTOR	TRANSMIT KEY LIGHT SW
Q9	KRA225S	TRANSISTOR	KEY BACKLIT SW
Q10	KRC102S	TRANSISTOR	KEY BACKLIT SW

SEMICONDUCTOR DATA FOR FCC ID:ALH32943220**Model Name:TK-8102H(K2) TX RX Unit**

SYMBOL	PARTS NUMBER	PARTS NAME	DISCRIPTION
D1	DA221	DIODE	SURGE ABSORPTION
D2	DA221	DIODE	SURGE ABSORPTION
D3	DA221	DIODE	SURGE ABSORPTION
D4	DA221	DIODE	SURGE ABSORPTION
D6	MA2S111	DIODE	DC SWITCH
D7	HZU5ALL	DIODE	VOTAGE DROPPED
D9	MA2S304	VARICAP	RX VCO
D10	MA2S304	VARICAP	TX VCO
D11	MA2S304	VARICAP	RX VCO
D12	MA2S304	VARICAP	TX VCO
D13	DAN222	DIODE	IF SWITCH (WIDE/NARROW)
D14	MA360	VARICAP	MODULATION
D15	DAN222	DIODE	IF SWITCH (WIDE/NARROW)
D16	MA2S111	DIODE	LIPPLE FILTER
D18	MA742	DIODE	RECTIFICATION

D19	DAN235E	DIODE	RF SWITCH(TX/RX)
D21	HVC350B	VARICAP	RF BPF TUNING
D22	HVC350B	VARICAP	RF BPF TUNING
D23	DA221	DIODE	TEMPERATURE COMPENSATION
D24	MA742	DIODE	LIMITER
D25	HVC350B	VARICAP	RF BPF TUNING
D26	HVC350B	VARICAP	RF BPF TUNING
D28	HVC350B	VARICAP	RF BPF TUNING
D38	ZSH5MA27	DIODE	REVERSE CONNECT PROTECTION
D39	02DZ18(X,Y)	DIODE	OVER VOLTAGE DETECTION
D41	1812L110PR	POLY SW	CURRENT PROTECTION
D43	DAN222	DIODE	OR GATE
D44	1SS372	DIODE	AGC
D800	02DZ5.1(Y)	DIODE	VOLTAGE PROTECTION
D801	MA4PH633	DIODE	ANT SW
D802	MA4PH633	DIODE	ANT SW
D803	XB15A709	DIODE	ANT SW
D804	XB15A709	DIODE	ANT SW
D805	MA742	DIODE	APC VOLTAGE DETECT
D806	MA742	DIODE	APC VOLTAGE DETECT
D807	1SS355	DIODE	TEMPERATURE COMPENSATION
Q2	2SJ243	FET	MIC MUTE
Q3	2SC4649(N,P)	TRANSISTOR	RF AMP
Q4	2SA1832(GR)	TRANSISTOR	CHARGE PUMP
Q5	2SC4738(GR)	TRANSISTOR	CHARGE PUMP
Q6	2SC4649(N,P)	TRANSISTOR	BUFFER AMP
Q7	2SJ243	FET	T/R SW
Q10	2SK508NV(K52)	FET	RX VCO
Q11	2SK508NV(K52)	FET	TX VCO
Q12	KRX102U	TRANSISTOR	T/R SW
Q13	2SK1824	TRANSISTOR	BEAT SHIFT
Q14	2SC4617(S)	TRANSISTOR	LIPPLE FILTER
Q15	2SC5108(Y)	TRANSISTOR	BUFFER AMP
Q16	KRC414RTK	TRANSISTOR	IGNITION
Q18	2SC2412K	TRANSISTOR	SQL AMP
Q19	2SC4649(N,P)	TRANSISTOR	IF AMP
Q20	2SC5108(Y)	TRANSISTOR	RF AMP
Q21	3SK255	FET	MIXER
Q22	2SK1824	FET	AF MUTE
Q23	2SC3356(R24)	TRANSISTOR	RF AMP
Q24	2SC4617(S)	TRANSISTOR	BUFFER AMP
Q26	3SK255	FET	RF AMP
Q29	KRC102S	TRANSISTOR	DC SWITCH(8R)
Q30	KRC102S	TRANSISTOR	DC SWITCH(8T)
Q31	2SA1745(6,7)	TRANSISTOR	DC SWITCH(8R)
Q32	DTC363EU	TRANSISTOR	AF MUTE
Q33	KTA1664(Y)	TRANSISTOR	DC SWITCH(8T)
Q34	KRC102S	TRANSISTOR	DC SWITCH(SB)
Q35	KRC102S	TRANSISTOR	AF MUTE
Q37	2SK1824	TRANSISTOR	BEAT SHIFT
Q38	KRC404RTK	TRANSISTOR	OVER VOLTAGE DETECTION

Q39	2SC5110(O)	TRANSISTOR	RF AMP
Q41	2SC4919	TRANSISTOR	AF AMP
Q42	2SA1641(S,T)	TRANSISTOR	DC SWITCH(SB)
Q43	2SK1824	FET	AF MUTE
Q101	2SK3478-22	FET	FINAL AMP
Q800	2SK2596	TRANSISTOR	DRIVE1
Q801	2SK3075	FET	DRIVE2
IC1	MB15A02	IC	PLL SYNTHESIZER
IC3	M62363FP	IC	DIGITAL POTENTIOMETER
IC4	NJM2902V	IC	BUFFER AMP
IC5	TK14489V	IC	FM DEMODULATION
IC6	784214AGC125	IC	CPU
IC7	24LC08BT-ISN	IC	EEPROM
IC9	LC73872M	IC	DTMF DECODE
IC10	NJM2902V	IC	Audio Filter
IC11	NJM2904V	IC	Active Filter (QT/DQT)
IC14	NJM78L05UA	IC	Voltage regulator (5C)
IC15	PST9140NR	IC	Voltage detector Reset
IC17	NJM78L05UA	IC	Voltage regulator (5M)
IC18	PST9140NR	IC	Voltage detector Int
IC19	TC7W74FU	IC	DIVIDER (7.159MHz)
IC20	KIA7808AF	IC	Voltage regulator (8C)
IC21	NJM2100V	IC	MIC AMP
IC22	NJM2904V	IC	MIC AMP
IC101	LA4600	IC	AF AMP
IC800	TA75W01FU	IC	APC CONTROL