

**FR-1000**  
**SEMICONDUCTOR DESIGNATIONS AND FUNCTIONS**

<b>Designator</b>	<b>Description</b>	<b>Application</b>
D1	KDS114E	WX Alert switch
D3	KDS114	RX / TX Switch for LPF
D4	KDS114E	Protect RX B+
D5	KDS120	Chargeing Switch
D7	KDS120	Charging for Dynamo
D9	KDS120	Charging for Dynamo
D10	KDS120	Charging for Dynamo
D11	KDS120	Charging for Dynamo
D12	KDS120	Charging for Dynamo
D13	KDS120	Charging for Dynamo
D101	KDV1472B	Frequency Tuning
D102	KDS114E	RX / TX Switch
D141	KDS114E	RX / TX Switch for VCO
DV1	KDV1472B	Temperature Tuning
DV2	KDV1472B	WX VCO OSC
DV141	KDV1472B	GMRS VCO OSC
D201	KDS114E	RX / TX Switch for LPF
D202	KDS114	RX / TX Switch for LPF
D204	KDS114E	TX B+ Switch
D401	KDS115	SQ Detect
D402	KDS114E	Protect RF signal
D601	KDV147B	FM VCO OSC
D603	KDV147B	FM VCO OSC
D605	KDV149	AM VCO OSC
D606	KDV147	AM Antenna Matching
D607	KDV149	AM VCO OSC
LDE1,2,3	Super Bright	Fresh
LED201,202 203,204	SML210MT	Backlit LED
IC601	TEA5757H	AM / FM controller
IC102	GP214D	PLL
IC103	LM324	OP AMP

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IC104	XC6201B402MR	4V Regulator
IC105	XC6201B502MR	5V Regulator
IC401	DBL5018	2'nd Mixer and Audio Demodulator
IC402	LM386	Speaker Amp
IC403	LM324	OP AMP
IC404	LM386	Speaker Amp
IC602	LM324	OP AMP
IC701	AT93C46	EEPROM
IC702	XC61CN2402MR	Reset
CPU1	TMP86CH21U	Micro-controller
CPU2	TMP86CH21U	Micro-controller
Q1	2SC4083	WX VCO
Q2	KRA305E	WX B+ Switch
Q3	KRC246S	Speaker Mute
Q4	2SC4226	WX LNA
Q5	2SC4083	WX Mixer
Q6	KRA226	Back Light LED on/off
Q7	KRC404E	Fresh LED on/off
Q8	KRA226	Fresh LED on/off
Q9	KRC246S	RGB Mute
Q10	KRA305E	Power VCC
Q103	KTA2014	EXT PTT
Q141	KRC405E	RX/TX VCO Switch of GMRS VCO
Q142, Q143	KRA226	VCO OSC of GMRS
Q144	KRC405E	VCO B+ Switch
Q201	NE5511279A	TX Power FET
Q203	BFQ67W	TX Driver
Q204	BFQ67W	TX Driver
Q205	BFQ67W	TX Pri-Driver
Q207, Q208, Q209	STJ828EF	TX B+ Switch
Q210	KRC404E	RX B+ Switch

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Q401	2SC4226	GMRS LNA
Q402	2SC4226	WX Mixer
Q403	KRC405E	CTCSS and WX Alert Detect
Q406	2SC4083	GMRS IF Amp
Q407	KRC405E	TX B+ Switch
Q409	KRA226	Speaker B+ Switch
Q410	KRC404E	Speaker B+ Switch
Q601	KRA226	AM/FM B+ Switch
Q702	KRC404E	AM Antenna matching