

**FUNCTION OF RF SEMICONDUCTORS AND OTHER ACTIVE DEVICES**

<b>SCHEMATIC KEY</b>	<b>PART NUMBER</b>	<b>CIRCUIT APPLICATION</b>	<b>OPERATING FREQUENCY</b>	<b>INDUSTRY EQUIVALENT</b>
CR101	48-80973Z02	ANTENNA SWITCH	403-470 MHz	MA4PH261
CR102	48-02245J41	ANTENNA SWITCH	403-470 MHz	HSMP3820
CR105	51-85963A15	POWER AMPLIFIER	403-470 MHz	LM50
CR103	48-02245J41	ESD PROTECTION DIODE	403-470MHz	HSMP3820
CR201	48-02233J09	SYNTHESIZER	16.8 MHz	IMN10
CR203	48-62824C03	TX VCO FREQ	430-470 MHz	1SV232
CR241	48-05649Q13	RX. VCO	355-425 MHz	1SV228
CR242 & CR243	48-62824C01	RX. VCO	355-425 MHz	1SV229
CR251	48-02245J22	TX. VCO	403-470 MHz	1T363
CR301 & CR302	48-62824C01	RX. SYSTEM	403-470 MHz	1SV229
CR303	48-80154K03	ESD PROTECTION	DC	MMBD353
CR304 & CR305	48-62824C01	RX. SYSTEM	403-470 MHz	1SV229
CR306	48-02245J42	MIXER	403-470 MHz	HPSM2827
CR308	48-02245J41	AGC	DC	HSMP3820
CR310	48-62824C01	2ND OSCILLATOR	90.2 MHz	1SV229
CR411,CR412 & CR413	48-02245J62	REVERSE CURRENT PROTECTION	DC	RB471E
CR440	48-13833C02	REVERSE CURRENT PROTECTION	DC	MMBD6100
CR501	48-80107R01	REVERSE CURRENT PROTECTION	DC	BYD17D
CR503	48-05729G49	LED	DC	BRPY1204W
Q110	48-13828A09	POWER AMPLIFIER	403-470 MHz	MRF1517
Q111,Q210,Q260,Q261 & Q417	48-02245J50	DC SWITCH	DC	UMC5N
Q241	48-05218N63	VCO OSCILLATOR	403-470 MHz	BFQ67W
Q301	48-02245J44	RF AMPLIFIER	403-470 MHz	HP415
Q302	48-02245J44	IF AMPLIFIER	45.1 MHz	HP415
Q315 & Q505	48-80214G02	DC SWITCH	DC	MMBT3904
Q320	48-05218N63	2ND OSCILLATOR	90.2 MHz	BFQ67W
Q400 & Q416	48-09579E18	DC SWITCH	DC	TP0101T
Q403	48-05128M67	DC SWITCH	DC	MMBT3906
Q405 & Q410	48-02245J54	DC SWITCH	DC	UMG5
Q502	58-80159R01	DC SWITCH	DC	LM50
U101	51-85130C65	TRANSMITTER SYSTEM	403-470 MHz	CUSTOM
U102	51-85765B28	TRANSMITTER SYSTEM	403-470 MHz	CUSTOM
U201	51-85963A27	FGU	16.8 MHz	CUSTOM
U211	51-02463J61	FGU	DC	TC7ST04FU
U241	51-05750U54	FGU	403-470 MHz	CUSTOM
U247	51-05739X05	5V VOLTAGE REGULATOR	DC	ADP3300
U248	51-02463J58	3.3V VOLTAGE REGULATOR	DC	LP2980
U301	51-09632D83	RX. SYSTEM		CUSTOM
U400	51-02463J40	3.3V VOLTAGE REGULATOR	DC	AT49BV020
U404	51-85963A53	AUDIO SYSTEM	AUDIO	CUSTOM
U406	51-02463J59	CONTROLLER SYSTEM	1.83 MHz	AT49LV010
U409	51-02226J56	CONTROLLER SYSTEM	1.83 MHz	MC74HC4066
U410	51-02463J57	3.3V VOLTAGE REGULATOR	DC	TDA8547
U420	51-02463J44	AUDIO AMPLIFIER	AUDIO	TC7SET04FU
VR432 & VR433	48-05656W08	ESD PROTECTION DIODE	DC	MMQA5V6T1
VR434,VR440-VR444 & VR506	48-02245J73	ESD PROTECTION DIODE	DC	BZX284_6V8
VR439	48-80140L17	ESD PROTECTION DIODE	DC	MMBZ5240B
VR445-VR449	48-02245J74	ESD PROTECTION DIODE	DC	BZX284_10V
VR501	48-13830A18	ESD PROTECTION DIODE	DC	MMBZ5235B
D601-D606	48-80479U01	KEYPAD BACKLIGHTING	DC	PY1111C
Q601	48-05128M67	AMPLIFIER	DC	MMBT3906
Q602 & Q603	48-80214G02	DC SWITCH	DC	MMBT3904
U602	51-02463J49	KEYPAD BOARD		LMC7211