

FUNCTION OF SOLID STATE DEVICES – SC- 580, SC- 581series

Section	Part	Device Name	Description	Function
PLL	QP01	Diode	DAN235E	RF RX/TX switch
	QP02	Transistor	2SC5005	RF amplifier for 1st local signal
	QP03	Transistor	2SC4726	RF amplifier for 1st local signal
	QP04	IC	MB15E03SL	Integrated Circuit of PLL synthesizer
	QP05	Diode	HN2D01FU	Voltage. protection
	QP06	Digital Transistor	DTC114YE/ RN1107	DC switch for PLL unlock
	QP09	FET	2SJ347	DC switch for VCO
	QP10	Digital Transistor	UNC5N	DC switch for VCO
	QP11	Transistor	2SD1383K	Active ripple filter for VCO power supply
	QP13	IC	M62334FP	Digital to Analog converter
	XP01	Oscillator	12.8MHz TCXO	Reference oscillator for PLL synthesizer
VCO	QV01	Transistor	2SC5005	RF amplifier
	QV02	FET	2SK1875(V)	VCO
	QV03	Vari Cap Diode	HVC358B	VCO
	QV04	FET	2SK1875(V)	VCO
	QV05	Vari Cap Diode	HVC359	VCO
	QV06	Vari Cap Diode	HVC358B	VCO
	QV07	Vari Cap Diode	1SV281	VCO
Transmitter	QF01	Diode	HVU131	RF Antenna switch
	QT01	Hybrid IC	RA07M4047 *1 RA07M4552 *2	RF final amplifier *1 SC-580 A / SC-581A *2 SC-580 B,C / SC-581 B,C
	QT02	Zener Diode	MAZ8043-H	Voltage. protection
	QT03	Transistor	2SC5227	RF amplifier
	QT04	Transistor	2SC5005	RF amplifier
	QT05	IC	NJM2904V	Operational amplifier
	QT06	Digital Transistor	DTA144EE/ RN2104	DC switch
	QT07	Digital Transistor	DTC144EE/ RN1104	DC switch
Receiver	QH01	Transistor	2SC4725	RF amplifier for 1st IF (44.950MHz)
	QH02	Transistor	2SC4725	RF amplifier for 1st IF (44.950MHz)
	QH03	Diode	MA132WK	Limiter
	QH04	IC	TK10487M(B)	Integrated Circuit for 2nd IF system
	QH05	Transistor	2SC4617	Noise amplifier
	QH06	Diode	1SS387	Noise rectifier
	QH07	Diode	1SS387	Noise rectifier
	QH08	FET	2SK1830	DC switch
	QH09	Diode	1SS387	Voltage. protection
	QR01	Diode	HSC277	RF Antenna switch
	QR02	FET	BF1105WR	RF amplifier [LNA]
	QR03	FET	3SK241	Receiver 1st mixer
	XH01	Crystal	44.495MHZ	Receiver Second local oscillator

FUNCTION OF SOLID STATE DEVICES – SC- 580, SC- 581 series

Section	Part	Device Name	Description	Function
Controller	QD01	IC	NJU6469AFG1	LCD driver
	QD02	LCD	KPS-M0574-HW-0	Liquid Crystal Display
	QD03	Transistor	2SD1383K	DC switch for Back light
	QD04	LED	SML-A12W	LED for Back light
	QD05	LED	SML-A12W	LED for Back light
	QD06	LED	SML-A12W	LED for Back light
	QD07	Digital Transistor	UMW1N	DC switch for Tx/Busy LED
	QD08	LED	SML-020MLT	LED for Tx/Busy
	QD09	LED	LT1H67A	LED for Back light
	QD10	LED	LT1H67A	LED for Back light
	QD11	LED	LT1H67A	LED for Back light
	QD12	LED	LT1H67A	LED for Back light
	QD13	LED	LT1H67A	LED for Back light
	QD14	LED	LT1H67A	LED for Back light
QL01	QL01	IC	HD64F2144TE20	Microprocessor
	QL02	IC	AT24C16N	EEPROM
	QL03	IC	S80840CNNB	Integrated Circuit for Reset
	QL04	Digital Transistor	DTA114YE/ RN2107	DC switch
	QL06	Digital Transistor	DTC114YE/ RN1107	DC switch
	QW01	Diode	1SS387	Voltage. protection
QW02	QW02	Diode	1SS387	Voltage. protection
	QW03	Diode	1SS387	Voltage. protection
	QW04	Diode	1SS387	Voltage. protection
	XL01	Crystal	4.032MHZ	Clock for Microprocessor
XS01	XS01	Resonator	CSAC4.19MGC-200	Clock for DTMF receiver (QS007)

FUNCTION OF SOLID STATE DEVICES – SC- 580, SC- 581 series

Section	Part	Device Name	Description	Function
Audio	QA01	IC	TA7368GF	AF amplifier
	QA02	Diode	1SS387	Voltage. protection
	QA03	Transistor	2SA1362(GR)	AF mute switch
	QA04	FET	2SK1830	AF mute switch
	QA05	Transistor	2SA1362(GR)	AF mute switch
	QA06	FET	2SK1830	AF mute switch
	QA07	Zener Diode	MA8068-M / UDZS6.8B	Voltage. protection
	QA08	Zener Diode	MA8068-M / UDZS6.8B	Voltage. protection
	QA09	Zener Diode	MA8068-M / UDZS6.8B	Voltage. protection
	QA10	Diode	1SS387	Voltage. protection
	QM01	IC	MX806ALH	Integrated Circuit for Base band
	QM02	IC	NJM2904V	Active filter / Comparator
	QS01	IC	MX805ALH	Sub audible signal decoding
	QS02	Diode	1SS362/ DA221	Limiter
	QS03	IC	BU4053BCFV	Analog Multiplexer
	QS04	IC	BU4053BCFV	Analog Multiplexer
	QS05	Digital Transistor	DTC114YE/ RN1107	DC switch
	QS06	IC	NJM2904V	Active filter / Comparator
	QS07	IC	LC73881M	Integrated Circuit for DTMF receiver
Regulator	QC01	Digital Transistor	DTC114EE/ RN1102	DC switch
	QC02	Diode	1SR154-400	Voltage. protection
	QC03	IC	X6202P502PR	+5V Regulator
	QC04	Digital Transistor	DTA114YE/ RN2107	DC switch for LCD power supply
	QC05	IC	S-812C30AMC-C2K	+3V Regulator
	QC06	Digital Transistor	UMC5N	DC switch for PLL power supply
	QC07	FET	HN1K02FU	DC switch
	QC08	Transistor	FP208	DC switch
	QC09	Digital Transistor	UMG3N/ RN1710	DC switch
	QC10	Digital Transistor	UMG3N/ RN1710	DC switch
	QC11	Digital Transistor	DTA114YE/ RN2107	DC switch
	QC12	Digital Transistor	DTA114YE/ RN2107	DC switch
	QC13	Zener Diode	MA8160-M / UDZ16B	Voltage. protection
	QC14	Zener Diode	MA8068-M / UDZS6.8B	Voltage. protection