

4. DL-3492 transceiver active devices functions

Reference Designator	Function	Type
CR101A	TCXO Varactor	BB639
CR200	Protection Diode	MMBD6050LT1
CR240	2nd LO Varactor	BB535
CR520	Power Control	MMBD701LT1
CR540	Antenna Switch	MMBV3401
CR541	Antenna Switch	MMBV3401
CR592	Power Control	MMBD701LT1
CR840	VCO Varactor	BB535
Q100	Receive Enable Switch	MUN5213T1
Q101A	TCXO Oscillator	MMBT3904
Q101	Receive Enable Switch	MUN5114T1
Q102A	TCXO Buffer	MMBT3904
Q110	RF Enable Switch	MUN5213T1
Q130	TX Enable Switch	MUN5213T1
Q131	TX Enable Switch	MUN5213T1
Q132	TX Enable Switch	MUN5114T1
Q133	TX Enable Switch	MUN5213T1
Q134	TX Enable Switch	MUN5114T1
Q135	TX Enable Switch	PZT2222AT1
Q200	RF Amplifier Bias	MSB1218-RT1
Q201	Low Noise RF Amplifier	NE85633
Q211	1st LO Mixer	NE25118
Q240	2nd LO Buffer	MMBT918
Q260	2nd LO Amplifier	NE85633
Q261	2nd LO Amplifier Bias	MSB1218-RT1
Q500	PA Driver	MSA2111
Q520	RF Power Amplifier	PZT2222AT1
Q800	TCXO Level Amplifier	MSD1819A-RT1
Q840	Synthesizer Enable	MUN5213T1
Q841	Tx Pin shift Positive	MUN5213T1
Q842	TxPin shift Negative	MUN5213T1
Q843	Lowband pin shift Positive	MUN5213T1
Q844	Lowband pin shift Negative	MUN5213T1
Q845	VCO	MSD1819A-RT1
Q911	Diagnostics Enable	MMBT3904
U110	5.5 Volts Regulated	TK11900M
U111	9.6 Volts Regulated	TK11900M
U130	Power Control	MC33174D
U230	2nd If/Demodulator/Limiter	SA676DK
U510	6W Pwr module, 900 MHz	BGY114E
U520	Power Control	MC33172D
U800	FRACTIONAL-N Synthesizer	SA7025
U840	Shift register 8-STG SOI	MC14094
U900	TLC5620ID quad 8 bit dac	TLC5620ID
U901	Shift register 8-STG SOI	MC14094
U902	3 2CH analog mux/de-mux	MC14053

5. INTEGRA R 210-3315-XXX ACTIVE CIRCUITS DESCRIPTION

Designator	function	Type
D1	DIODE, HOT CARRIER, SOT-23	MMBD301LT1
D2	DIODE, HOT CARRIER, SOT-23	MMBD301LT1
D3	DIODE, SOT-23	BAV99LT1
D4	DIODE, SOT-23	BAV99LT1
D5	DIODE, SOT-23	BAV99LT1
D6	DIODE,RECTF,1A/100V	1N4001
DS1	LED,3MM,BICOLOR,RED/GREEN SMT	591-3001-102
DS2	LED,3MM,BICOLOR,RED/GREEN SMT	591-3001-102
DS3	LED,3MM,BICOLOR,RED/GREEN SMT	591-3001-102
DS4	LED,3MM,BICOLOR,RED/GREEN SMT	591-3001-102
Q1	TRANSISTOR, GENERAL PURPOSE,SOT-23	MMBT3904LT1
Q2	TRANSISTOR, GENERAL PURPOSE,SOT-23	MMBT3904LT1
Q3	TRANSISTOR, GENERAL PURPOSE,SOT-23	MMBT3904LT1
Q4	TRANSISTOR, GENERAL PURPOSE,SOT-23	MMBT3904LT1
U1	QUAD, OP-AMP , -40/+85 SO-14	TLC2274ID
U2	HEX INVERTER CMOS	74HC04AD
U3	QUAD OP-AMP	LMC6484AIM
U4	8 BIT A/D,-40/+85C SO-20W	ADC0838CIWM
U5	POTENTIOMETER 4 DIGITAL	AD8403AR50
U6	TEMPERATURE SENSOR,SOT-23	LM50CIM3
U7	DUAL OP-AMP,-40/+85 SO-8	TLC2272ID
U8	ANALOG MULTIPLEXERS/DEMULTIPLEXERS SOIC 16	MC74HC4053D
U9	QUAD, OP-AMP , -40/+85 SO-14	TLC2274ID
U10	FILTER, LINEAR PHASE LOW PASS SO-8	LTC1069-7
U11	REGULATOR,MICROPOWER VOLTAGE ,SO-8	LP2951CD
U12	REGULATOR,LOW DROPOUT,Q PACKAGE	LT1129IQ-5
U13	DUAL MONOSTABLE, SOIC	74HC4538AD
U14	QUAD NAND GATE	74HC00AD
U15	CONVERTER RS-232	ADM223AR
U16 (TO BE PROGRAMMED)	CPLD 64 MACROCELL	PZ5064-I12A44
U17	MICROPROCESSOR ,10MHz	Z8401510FEC
U18	RAM,CMOS,32K x 8, -40/+85, SOP-28	TC55257DFI-85L or TC55257DFL-85L (SCREENED -40 +85)
U19	RESET CIRCUIT, -40+85 ,SO-8	MC33064D-5
U20	HEX OR GATE,CMOS	74VHC32AD
U21	MICROPROCESSOR ,10MHz	Z84C1510FEC /Z8401510FEC
U22 (TO BE PROGRAMMED)	EPROM, FLASH 1 MEGABIT, -40/+85 PLCC	AT29C010A-90J1
X1	XTAL, FPX SERIES 19.6608 MHz	FPX196-20PF