

McMurdo Limited

Silver Point, Airport Service Road, Portsmouth, Hampshire, UK PO3 5PB
 Phone: +44 (0) 23 9262 3900
 Fax: +44 (0) 23 9262 3998
www.mcmurdo.co.uk

**Function of key components**

Refer to drawing 85-630C

Part	Function
IC1	Micro-controller, PIC16LF876 -041
IC2	Phase locked loop, LMX1501AM
IC3	Linear regulator, LM2931CM
IC4	Linear regulator, LP2951
IC5	Switching regulator, MAX 887
IC6	Linear regulator, ZR431F
IC7	Linear regulator, ZR431L
IC8	406MHz PA, MC68732L
IC10	Morse micro-controller, PIC24C671
IC11	Linear regulator, LM2904
IC14	Piezo sounder oscillator, LM555CM
IC15	Morse gating, MM74HC00M
Q1 Q3 Q11 Q19	PNP switching transistor
Q2	Current mirror, BCV61
Q4	121.5MHz oscillator, BFS17A
Q5	121MHz buffer / modulator, BF998
Q6	406MHz VCO, BFR93A
Q7	406MHz PA driver, BFR106
Q8	121MHz PA, BFR106
Q9, Q12, Q15, Q17, Q18, Q20, Q21, Q22, Q23	Miscellaneous NPN switching, BC817-25
Q13	Power switch, FZT88B
Q14	406MHz PA power switch, RFD15P05SM
D2	VCO tuning varicap, BB515
D9	Self test detector dual diode, BAV99
D13, D14	Temperature compensation, BAV99
D18	Switching regulator Schottky, STPS340U
D20	IR diode, BPW34
All other diodes are general purpose switching diodes.	
X1	121.5MHz oscillator crystal.
X2, X3	4MHz micro-controller crystal
OSC1	406MHz reference OCXO
P1	Piezo sounder

