

DCC Locomotive Decoder

Creation Date: 8/19/2012

Currency: AUD

Quantity: 1

Parts for PCB build

Package	Designator	Description	Qty	Manufacturer	Manufacturer Part Number	Mouser Part Number	Farnell Part Number
0603	C1, C3, C5	Multilayer Ceramic Capacitor 0603 - 100nF	3	TDK	CGJ3E2X7R1H104K	810-CGJ3E2X7R1H104K	1740614
0603	C2	Multilayer Ceramic Capacitor 0603 - 1uF	1	TDK	C1608X7R1E105K	810-C1608X7R1E105K	1907344
1206	C4	6.3V 33uF Tantalum Capacitor	1	AVX	TLJK336M006R1700	581-TLJK336M006R1700	1432548
0805	R13	Thick Film Resistor 0805 - 100R	1	Panasonic	ERJ-6GEYJ101V	667-ERJ-6GEYJ101V	2057681
0603	R4, R10	Thick Film Resistor 0603 - 560R	2	Panasonic	ERJ-3EKF5600V	667-ERJ-3EKF5600V	9331344
0603	R3, R9	Thick Film Resistor 0603 - 1k5	2	Panasonic	ERJ-3EKF1501V	667-ERJ-3EKF1501V	9330607
0603	R5, R8	Thick Film Resistor 0603 - 2k2	2	Panasonic	ERJ-3EKF2201V	667-ERJ-3EKF2201V	9330399
0603	R15	Thick Film Resistor 0603 - 4k7	1	Panasonic	ERJ-3EKF4701V	667-ERJ-3EKF4701V	9331247
0603	R6, R7, R17, R21	Thick Film Resistor 0603 - 10k	4	Panasonic	ERJ-3EKF1002V	667-ERJ-3EKF1002V	9330399
0603	R14, R16, R18, R19	Thick Film Resistor 0603 - 33k	4	Panasonic	ERJ-3EKF3302V	667-ERJ-3EKF3302V	9331034
0603	R12	Thick Film Resistor 0603 - 47k	1	Panasonic	ERJ-3EKF4702V	667-ERJ-3EKF4702V	9330399
0603	R11	Thick Film Resistor 0603 - 100k	1	Panasonic	ERJ-3EKF1003V	667-ERJ-3EKF1003V	9330399
0603	R20	Thick Film Resistor 0603 - 1M	1	Panasonic	ERJ-3EKF1004V	667-ERJ-3EKF1004V	9330399
Mini2-F4-B	D1, D2, D3, D4	Schottky Diode - DB22306	4	Panasonic	DB2230600L	667-DB2230600L	1456527
SOD-323	D7	Zener Diode - 3.9V 200mW	1	Fairchild	MM3Z3V9B	512-MM3Z3V9B	1757857
SOD-323	D6	Zener Diode - 6.2V 200mW	1	Fairchild	MM3Z6V2B	512-MM3Z6V2B	1757863
DO-213AB	D5	Zener Diode - 27V 1W	1	Taiwan Semi	ZM4750A	821-ZM4750A	--
SC-59	Q1, Q5	Digital NPN Transistor - DTC144EKA	2	ROHM	DTC144EKAT146	621-DDTC144EKA-7-F	1680283
SC-70	Q4	Digital NPN Transistor - DTC123YUAT106	1	ROHM	DTC123YUAT106	755-DTC123YUAT106	--
SC-59	Q6	Bipolar NPN Transistor - BC850B	1	NXP	BC850B,215	771-BC850B-T/R	1081239
SC-70	Q7	Bipolar PNP Transistor - MSB1218A-RT1G	1	On Semi	MSB1218A-RT1G	863-MSB1218A-RT1G	--
1206-8	Q2, Q3	Dual Mosfet P/N channel - Si5504DC	2	Vishay	SI5504DC-E3	781-SI5504DC-E3	1470126
SOT-363	Q8, Q9	Dual Mosfet N channel - PMGD370XN	2	NXP	PMGD370XN	771-PMGD370XN-T/R	1894746
QFN-28	U1	Microcontroller - PIC18F25K22	1	Microchip	PIC18F25K22-I/ML	579-PIC18F25K22-I/ML	1840989
PBRC-M	X1	Resonator - SMD - 16MHz	1	AVX	581-PBRC16.00MR70X000	581-PBRC16.00MR70X	2101363
1MM_5PIN	J1	Header, 1mm, 5-Pin	1	Global Connector Technology	BC070-05-A-1-L-D	n/a	1798766

PCB Support

Description	Qty	Manufacturer	Manufacturer Part Number	Mouser Part Number	Farnell Part Number
Bare Loco Decoder PCB Board (x5)	1	Seeed Studio Bazaar		n/a	n/a
Pin Header - 5 way - 2.54mm pitch	1	FCI	68000-236HLF	--	1824426
Pin Header - 5 way - 1mm pitch	1	Global Connector Technology	BC020-05-A-0200-0300-L	n/a	1798701
PCB Board - PICKIT adapter	1	Ray Jones		n/a	n/a