

Itron
Bill of Material
Single Level
By Component Part Number

Page - 1
Date - 8/18/98
As Of - 08/18/98
Bill Type - M

Level	Parent Item Component Item	Rev	Description	Qty Per	UM	From	Thru	Scrap	% Seq	F	Item	Comp	Prod	MPS	MD1	Warehouse
TOP	SUB-0090-002	1	SUB.RPT.2 CHAN TRANSMITTER		PC						RPT	PC	ENG	187		WM
1	CAP-0001-101	A	CAP.NPO.100PF.5%.50V.0805 Bubble Seq#:	40.0000	PC	08/11/98	12/31/10	4		1.0 B	NCN	C	REL	190	017	019
				Dwg #:	CAP-0001-000						Locators:	001	007	010	017	019
												021	022	023	024	025
												027	028	030	031	032
												033	036	037	038	039
												040	041	047	051	052
												055	068	069	070	071
												072	073	075	076	077
												078	079	080	081	082
1	CAP-0001-102	0	CAP.NPO.1000PF.5%.50V.0805 Bubble Seq#:	8.0000	PC	08/11/98	12/31/10			14.0 B						
				Dwg #:	CAP-0001-000						Locators:	013	018	046	056	061
												062	063	064		
1	CAP-0001-189	A	CAP.NPO.1.8PF.5%.50V.0805 Bubble Seq#:	2.0000	PC	08/11/98	12/31/10	4		2.0 B	RPT	C	REL	187		WM
				Dwg #:	CAP-0001-000						Locators:	016	043			
1	CAP-0001-309	N/A	CAP.NPO.3.0PF.5%.50V.0805 Bubble Seq#:	1.0000	PC	08/11/98	12/31/10	4		3.0 B	RPT	C	REL	187		WM
				Dwg #:	CAP-0001-000						Locators:	035				
1	CAP-0001-399	A	CAP.NPO.3.9PF.5%.50V.0805 Bubble Seq#:	4.0000	PC	08/11/98	12/31/10	4		4.0 B	RPT	C	REL	187		WM
				Dwg #:	CAP-0001-000						Locators:	012	014	044	045	
1	CAP-0001-809	N/A	CAP.NPO.8.0PF.5%.50V.0805 Bubble Seq#:	1.0000	PC	08/11/98	12/31/10	4		5.0 B						WM
				Dwg #:	CAP-0001-000						Locators:	034				
1	CAP-0005-2R0	A1	CAP.LASER.0.5-2.0PF.50V.1206 Bubble Seq#:	2.0000	PC	08/11/98	12/31/10	4		61.0 B	VE	C	REL	10		WM
				Dwg #:	CAP-0005-000						Locators:	053	054			
1	CAP-0008-103	A1	CAP.X7R.010UF.10%.50V.0805 Bubble Seq#:	12.0000	PC	08/11/98	12/31/10	4		6.0 B	MCN	C	REL	190		WM
				Dwg #:	CAP-0008-000						Locators:	003	008	009	023	050
												057	058	059	060	065
												066	067			
1	CAP-0008-182	A1	CAP.X7R.1800PF.10%.50V.0805 Bubble Seq#:	1.0000	PC	08/11/98	12/31/10	4		7.0 B	RPT	C	REL	187		WM
				Dwg #:	CAP-0008-000						Locators:	006				
1	CAP-0008-681	A1	CAP.X7R.680PF.10%.50V.0805 Bubble Seq#:	1.0000	PC	08/11/98	12/31/10	4		8.0 B	RPT	C	REL	187		WM
				Dwg #:	CAP-0008-000						Locators:	002				
1	CAP-0015-105	A1	CAP.TANT.1.0UF.10%.25V A CA Bubble Seq#:	2.0000	PC	08/11/98	12/31/10	4		15.0 B	VE	C	REL	20		WM
				Dwg #:	CAP-0015-000						Locators:	011	074			
1	CAP-0019-226	A2	CAP.TANT.220UF.10%.16.3V. B CASE Bubble Seq#:	3.0000	PC	08/11/98	12/31/10	4		9.0 B	VM	C	REL	60		WM
				Dwg #:	CAP-0019-000						Locators:	005	020	049		
1	CAP-0022-3R3	A2	CAP.N750. 3.3PF.10%.50V.0603 Bubble Seq#:	2.0000	PC	08/11/98	12/31/10	4		10.0 B	VE	C	REL	20		WM
				Dwg #:	CAP-0022-000						Locators:	015	042			
1	CON-0104-002	A	HEADER.2X10.0.1CTR G10	1.0000	PC	08/11/98	12/31/10	4		11.0 B	RPT	J	REL	187		WM

Parent Item Level	Component Item	Rev	Description	Qty Per	UM	Effective From	Thru	Scrap %	Seq	Item Cmp Prd MPS Mtl Cts Des Sls Fam Num Warehouse
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CON: SUB-0090-002		1	SUB.RPT.2 CHAN TRANSMITTER		PC					RPT PC ENG 187
			Bubble Seq#:	Dwg #:	CON-0104-000	Dwg Rev: A	Des: J			Locators: 001
1	CON-0106-001	A	CON. COAX. STR JACK RCPT	2.0000	PC	08/11/98 12/31/10 4	Des: J	12.0 B		RPT J REL 187
			Bubble Seq#:	Dwg #:	CON-0106-000	Dwg Rev: A	Des: J			Locators: 001 002
1	DIO-0003-002	A	DIO.MMBV809LTLVAR2.5-5.3PFT/R	2.0000	PC	08/11/98 12/31/10 4	Des: CR	13.0 B		VE CR REL 20
			Bubble Seq#:	Dwg #:	DIO-0003-002	Dwg Rev:	Des: CR			Locators: 003 008
1	DIO-0044-001	N/A	DIO.S/M.M4CP101.FIN.SOT-23	4.0000	PC	08/11/98 12/31/10 4	Des: CR	16.0 B		CCU CR REL 180
			Bubble Seq#:	Dwg #:	DIO-0044-001	Dwg Rev:	Des: CR			Locators: 002 004 006 007
1	FLT-0017-001	A	FLT.1150MHZ.RESONATOR.4MM	2.0000	PC	08/11/98 12/31/10 4	Des: FL	17.0 B		VE FL REL 20
			Bubble Seq#:	Dwg #:	FLT-0017-000	Dwg Rev:	Des: FL			Locators: 001 002
1	ICS-0010-002	N/A	ICS.PM2105.RF.PWR AMP.S0-8	1.0000	PC	08/11/98 12/31/10 4	Des: U	18.0 B		RPT U ENG 187
			Bubble Seq#:	Dwg #:	ICS-0010-002	Dwg Rev: A	Des: U			Locators: 004
1	ICS-0128-002	A	IC.S/M.TX11250.VREG.LDO.5.0V	1.0000	PC	08/11/98 12/31/10 4	Des: U	19.0 B		CCU U REL 180
			Bubble Seq#:	Dwg #:	ICS-0128-002	Dwg Rev: A	Des: U			Locators: 002
1	ICS-0168-001	N/A	IC.S/M.TLC262.DUAL.R/R.OP-AMP	1.0000	PC	08/11/98 12/31/10 4	Des: U	62.0 B		CCU U REL 180
			Bubble Seq#:	Dwg #:	ICS-0168-001	Dwg Rev:	Des: U			Locators: 006
1	ICS-0184-001	A	IC.TLE206210.OP AMP	3.0000	PC	08/11/98 12/31/10 4	Des: U	20.0 B		RPT U REL 187
			Bubble Seq#:	Dwg #:	ICS-0184-001	Dwg Rev: A	Des: U			Locators: 001 003 005
1	IND-0001-120	A1	IND.S/M.12MH.5%.0805	1.0000	PC	08/11/98 12/31/10 4	Des: L	21.0 B		RPT L ENG 187
			Bubble Seq#:	Dwg #:	IND-0001-000	Dwg Rev: A1	Des: L			Locators: 002
1	IND-0001-220	A1	IND.220MH.5%.0805	2.0000	PC	08/11/98 12/31/10 4	Des: L	22.0 B		VE L REL 10
			Bubble Seq#:	Dwg #:	IND-0001-000	Dwg Rev: A1	Des: L			Locators: 001 003
1	PCB-0090-002	N/A	PCB.RPT.2 CHAN TRANSMITTER	1.0000	PC	08/11/98 12/31/10 1	Des: PC	23.0 B		RPT PC ENG 187
			Bubble Seq#:	Dwg #:	PCB-0090-002	Dwg Rev:	Des: PC			Locators: 001
1	RES-0000-000	A	RES. DO NOT INSTALL	4.0000	RE	08/11/98 12/31/10 6	Des: R	24.0 B		R REL
			Bubble Seq#:	Dwg #:	NO DRAWING REQUIRED	Dwg Rev:	Des: R			Locators: 006 019 030 046
1	RES-0007-101	A2	RES.100.5%.0805.1/10%	11.0000	PC	08/11/98 12/31/10 4	Des: R	25.0 B		CCU R REL 180
			Bubble Seq#:	Dwg #:	RES-0007-000	Dwg Rev: A2	Des: R			Locators: 005 027 032 034 038 040 043 057 071
1	RES-0007-102	A2	RES.1K.5%.0805.	5.0000	PC	08/11/98 12/31/10 4	Des: R	26.0 B		CCU R REL 180
			Bubble Seq#:	Dwg #:	RES-0007-000	Dwg Rev: A2	Des: R			Locators: 020 022 023 045 047
1	RES-0007-103	A2	RES.10K.5%.0805	4.0000	PC	08/11/98 12/31/10 4	Des: R	27.0 B		CCU R REL 180
			Bubble Seq#:	Dwg #:	RES-0007-000	Dwg Rev: A2	Des: R			Locators: 001 002 003 004
1	RES-0007-104	A2	RES.100K.5%.0805	10.0000	PC	08/11/98 12/31/10 4	Des: R	28.0 B		CCU R REL 180
			Bubble Seq#:	Dwg #:	RES-0007-000	Dwg Rev: A2	Des: R			Locators: 007 012 015 026 060 063 064 065 077 081

Parent Item	Level	Component Item	Rev	Description	Qty Per	UM	From	Thru	T	Scrap %	Seq	I	Item Cmp Prd MPS Mdl
----- Effective -----													
CNNT:	SUB-0090-002	SUB.RPT, 2 CHAN TRANSMITTER											
1	RES-0007-105	A2	RES. 1M, 5%, 0805, 1/10W Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	30.0 B	CCU R	REL 180
1	RES-0007-151	A2	RES. 150, 5%, 0805 Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	45.0 B	CCU R	REL 180
1	RES-0007-153	A2	RES. 15K, 5%, 0805 Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	31.0 B	RPT R	REL 187
1	RES-0007-184	N/A	RES. 180K, 5%, 0805 Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	29.0 B	RPT R	REL 187
1	RES-0007-220	A2	RES. 22.5%, 0805, 1/10W Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	32.0 B	CCU R	REL 180
1	RES-0007-221	A2	RES. S/M, 220, 5%, 0805, 1/10W Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	33.0 I	RPT R	REL 187
1	RES-0007-223	A2	RES. S/M, 22K, 5%, 0805, 1/10W Bubble Seq#:	Dwg #:	3.0000	PC	08/11/98	12/31/10	4	Des: R	34.0 I	RPT R	REL 187
1	RES-0007-331	A2	RES. 330, 5%, 0805, Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	56.0 B	CCU R	REL 180
1	RES-0007-332	N/A	RES. 3, 3K, 5%, 0805 Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	55.0 B	RPT R	REL 187
1	RES-0007-333	A2	RES. 33K, 5%, 0805 Bubble Seq#:	Dwg #:	4.0000	PC	08/11/98	12/31/10	4	Des: R	47.0 B	Locators: 028	061 079 080
1	RES-0007-390	A2	RES. 39, 5%, 0805 Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	35.0 B	RPT R	REL 187
1	RES-0007-392	A2	RES. 3.9K, 5%, 0805 Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	36.0 B	RPT R	REL 187
1	RES-0007-393	A2	RES. 39K, 5%, 0805 Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	37.0 B	RPT R	REL 187
1	RES-0007-470	A2	RES. 47, 5%, 0805 Bubble Seq#:	Dwg #:	6.0000	PC	08/11/98	12/31/10	4	Des: R	38.0 B	RPT R	REL 187
1	RES-0007-471	A2	RES. 470, 5%, 0805 Bubble Seq#:	Dwg #:	1.0000	PC	08/11/98	12/31/10	4	Des: R	39.0 B	Locators: 037	076 082 083 084 029 052 073 082
1	RES-0007-472	A2	RES. 4.7K, 5%, 0805 Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	40.0 B	CCU R	REL 180
1	RES-0007-473	A2	RES. 47K, 5%, 0805 Bubble Seq#:	Dwg #:	2.0000	PC	08/11/98	12/31/10	4	Des: R	41.0 B	RPT R	REL 187

Iron
Bill Of Material
Single Level
By Component Part Number

Parent Item	Level	Component Item	Rev	Description	Qty Per	UM	From	Thru	T	Scrap	% Seq	T	Item	Cmp	Prod	MPS	Mdl	Warehouse
CONT: SUB-0090-002			1	SUB.RPT, 2 CHAN TRANSMITTER		PC												
1		RES-0007-474	N/A	RES.470K,5%,0805	1.0000	PC	08/11/98	12/31/10	4		57.0 B		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0007-000		Dwg Rev:	A2	Des:	R	Locators:	067					
1		RES-0007-564	N/A	RES.560K,5%,0805	1.0000	PC	08/11/98	12/31/10	4		58.0 B		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0007-000		Dwg Rev:	A2	Des:	R	Locators:	068					
1		RES-0007-680	A2	RES.S/M,68.5K,0805,1/10W	3.0000	PC	08/11/98	12/31/10	4		42.0 I		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0007-000		Dwg Rev:	A2	Des:	R	Locators:	031	042	055			
1		RES-0007-681	A2	RES.S/M,680.5K,0805,1/10W	1.0000	PC	08/11/98	12/31/10	4		43.0 I		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0007-000		Dwg Rev:	A2	Des:	R	Locators:	049					
1		RES-0007-752	N/A	RES.7.5K,5%,0805	2.0000	PC	08/11/98	12/31/10	4		59.0 B		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0007-000		Dwg Rev:	A2	Des:	R	Locators:	070	074				
1		RES-0007-914	N/A	RES.910K,5%,0805	1.0000	PC	08/11/98	12/31/10	4		46.0 B		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0007-000		Dwg Rev:	A2	Des:	R	Locators:	021					
1		RES-0016-100	N/A	RES.10 OHM,5K,2512	2.0000	PC	08/11/98	12/31/10	4		44.0 B		RPT R	ENG	187			
				Bubble Seq#:	Dwg #:	RES-0016-000		Dwg Rev:	A	Des:	R	Locators:	025	054				
1		RES-0036-103	A	RES.10K,25K,1.2W,4MM	3.0000	PC	08/11/98	12/31/10	4		48.0 B		RPT R	REL	187			
				Bubble Seq#:	Dwg #:	RES-0036-000		Dwg Rev:	A	Des:	R	Locators:	010	017	046			
1		XTR-0001-001	A1	XTR,MMB13906,PNP,200MA,250MHZ,	2.0000	PC	08/11/98	12/31/10	4		60.0 B		WCI Q	REL	70			
				Bubble Seq#:	Dwg #:	XTR-0001-001		Dwg Rev:	A1	Des:	Q	Locators:	009	012				
1		XTR-0002-001	A1	XTR,MMB13904,NPN,200MA,300MHZ,	3.0000	PC	08/11/98	12/31/10	4		49.0 B		VE Q	REL	10			
				Bubble Seq#:	Dwg #:	XTR-0002-001		Dwg Rev:	A1	Des:	Q	Locators:	001	010	011			
1		XTR-0003-001	A	XTR,BF192,PNP,25MA,56HZ,15V,	3.0000	PC	08/11/98	12/31/10	4		50.0 B		VE Q	REL	10			
				Bubble Seq#:	Dwg #:	XTR-0003-001		Dwg Rev:	A	Des:	Q	Locators:	002	003	006			
1		XTR-0037-001	N/A	XSTR,S/M,St643300	1.0000	PC	08/11/98	12/31/10	4		51.0 B		CCU Q	REL	180			
				Bubble Seq#:	Dwg #:	XTR-0037-001		Dwg Rev:		Des:	Q	Locators:	004					
1		XTR-0044-001	N/A	XTR,MMUN2112LT11	3.0000	PC	08/11/98	12/31/10	4		52.0 B		CCU Q	ENG	180			
				Bubble Seq#:	Dwg #:	XTR-0044-001		Dwg Rev:		Des:	Q	Locators:	005	007	008			
1		310-0193-003	A1	CAP,S/M,10UF,10%,16V,T.A,C-CS,	1.0000	PC	08/11/98	12/31/10	4		53.0 B		CCU C	REL	180			
				Bubble Seq#:	Dwg #:	310-0193-000		Dwg Rev:	A1	Des:	C	Locators:	004					
1		310-0193-006	A1	CAP,S/M,15UF,10%,20V,T.A,C-CS,	2.0000	PC	08/11/98	12/31/10	4		54.0 B		CCU C	REL	180			
				Bubble Seq#:	Dwg #:	310-0193-000		Dwg Rev:	A1	Des:	C	Locators:	026	048				