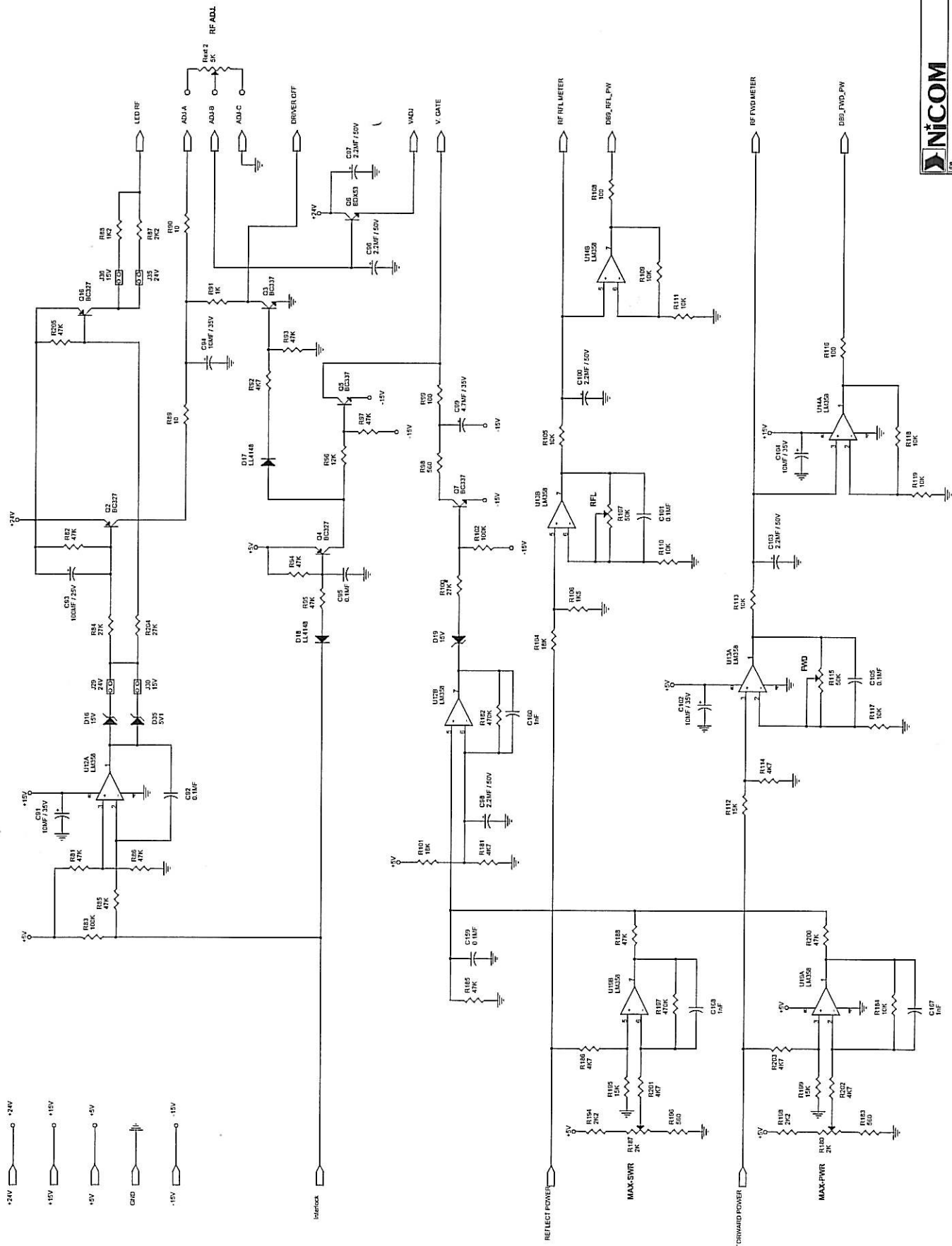
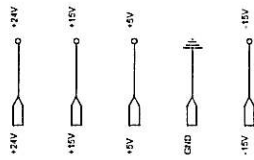
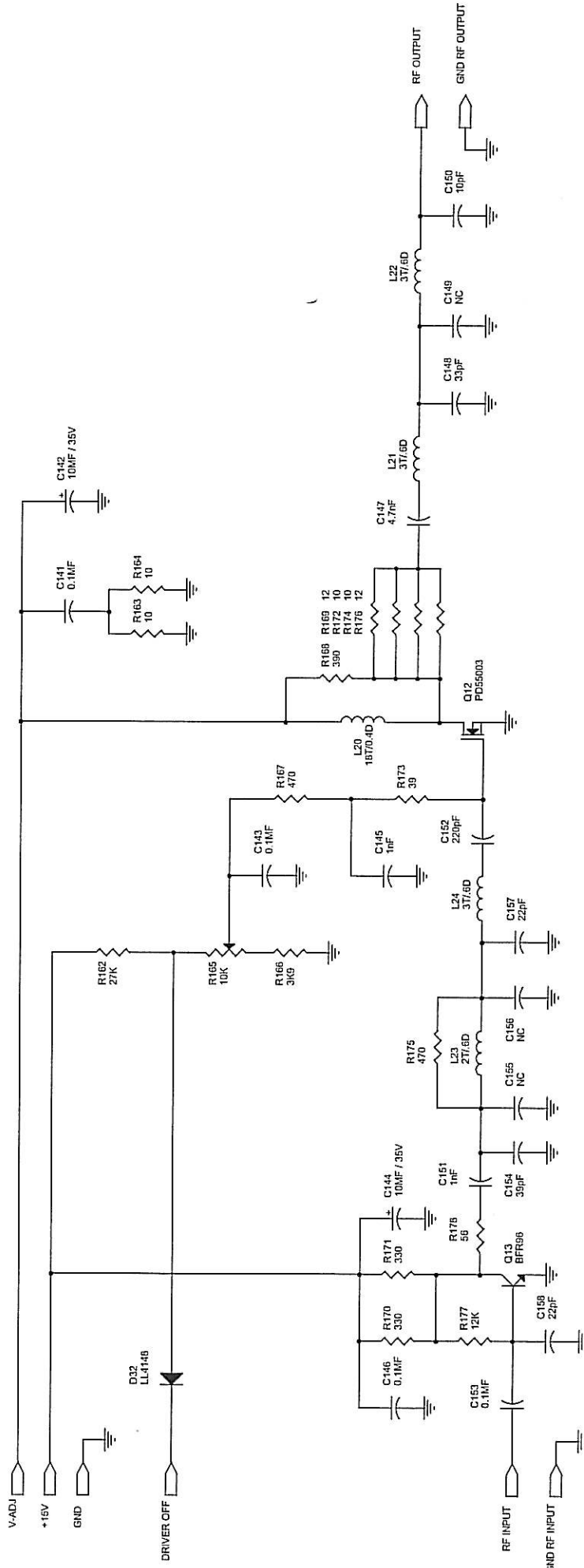


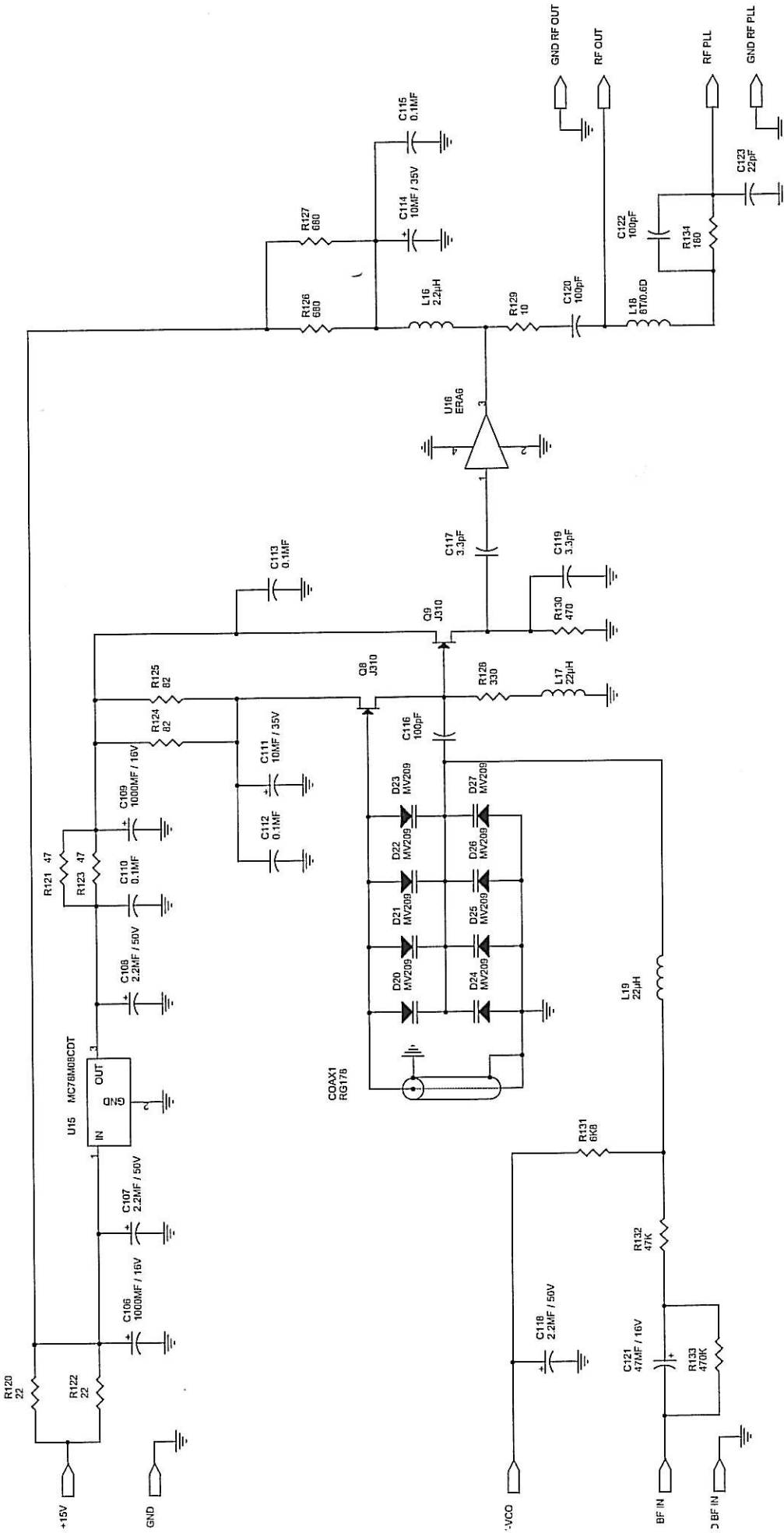


Protection & Meter

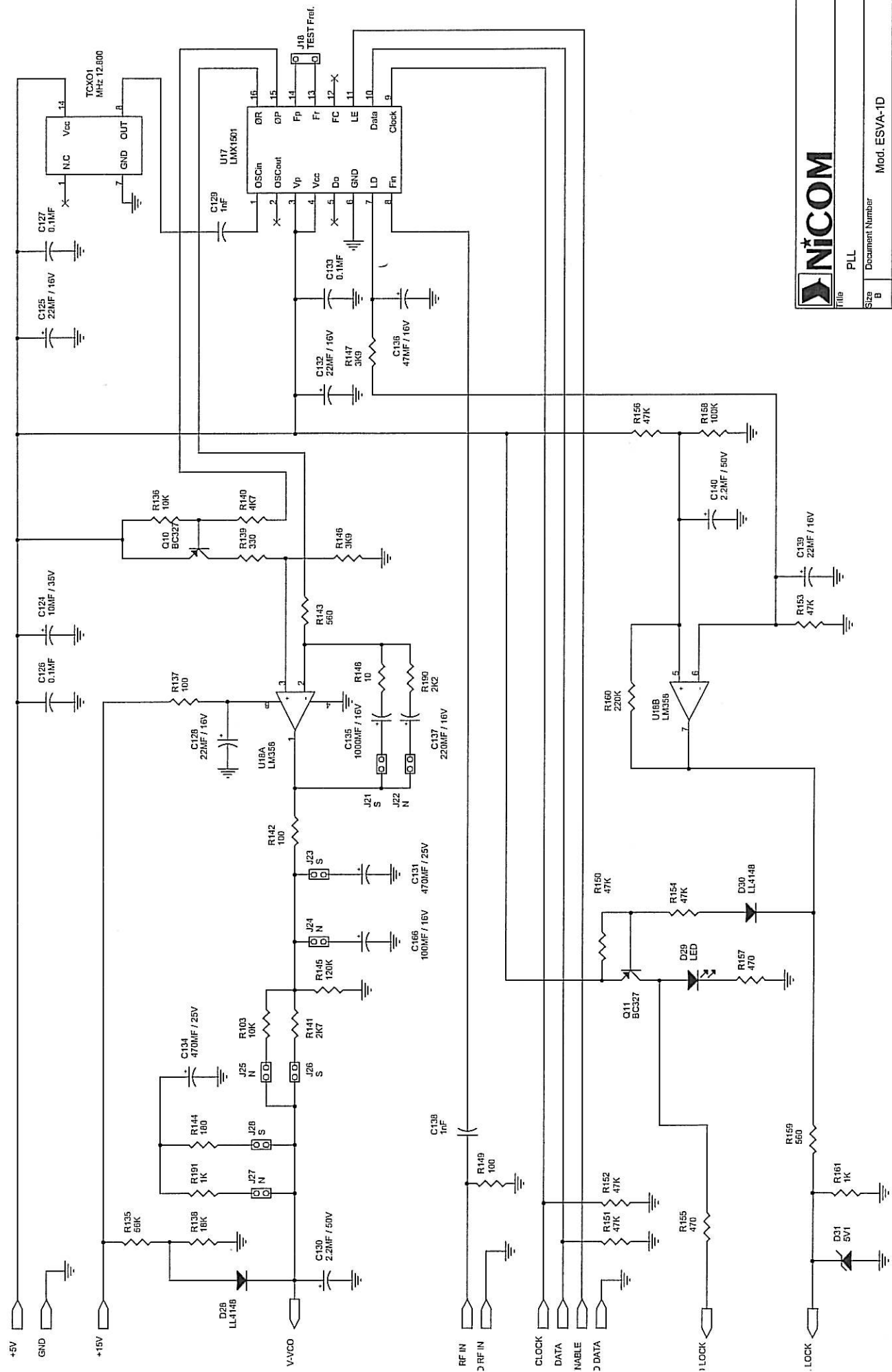
Document Number
Mod ESVA-ID
Rev 1.0



Title		RF Driver	
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Title		VCO
Size	Document Number	Mod. ESVA-1D
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Title	PLL
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Part List Schematic : ESVA-1D

Rif.	Value	Remarks	Description	Code
C1	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C2	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C3	1nF		SMD Multilayer Ceramic Capacitor	
C4	1nF		SMD Multilayer Ceramic Capacitor	
C5	1nF		SMD Multilayer Ceramic Capacitor	
C6	1nF		SMD Multilayer Ceramic Capacitor	
C7	1nF		SMD Multilayer Ceramic Capacitor	
C8	1nF		SMD Multilayer Ceramic Capacitor	
C9	1nF		SMD Multilayer Ceramic Capacitor	
C10	1nF		SMD Multilayer Ceramic Capacitor	
C11	1nF		SMD Multilayer Ceramic Capacitor	
C12	1nF		SMD Multilayer Ceramic Capacitor	
C13	1nF		SMD Multilayer Ceramic Capacitor	
C14	1nF		SMD Multilayer Ceramic Capacitor	
C15	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C16	39pF		SMD Multilayer Ceramic Capacitor	
C17	39pF		SMD Multilayer Ceramic Capacitor	
C18	1nF		SMD Multilayer Ceramic Capacitor	
C19	1nF		SMD Multilayer Ceramic Capacitor	
C20	39pF		SMD Multilayer Ceramic Capacitor	
C21	39pF		SMD Multilayer Ceramic Capacitor	
C22	1nF		SMD Multilayer Ceramic Capacitor	
C23	1nF		SMD Multilayer Ceramic Capacitor	
C24	1nF		SMD Multilayer Ceramic Capacitor	
C25	1nF		SMD Multilayer Ceramic Capacitor	
C26	60pF		Trimmer Polyethylene Film Capacitor	
C27	10pF		SMD Multilayer Ceramic Capacitor	
C28	22pF		SMD Multilayer Ceramic Capacitor	
C29	270pF		SMD Multilayer Ceramic Capacitor	
C30	100MF	16V	SMD Aluminium Electrolytic Capacitor	
C31	1000MF	25V	Aluminium Electrolytic Capacitor	
C32	270pF		SMD Multilayer Ceramic Capacitor	
C33	270pF		SMD Multilayer Ceramic Capacitor	
C34	10MF	35V	Aluminium Electrolytic Capacitor	
C35	470MF	35V	Aluminium Electrolytic Capacitor	
C36	470MF	35V	Aluminium Electrolytic Capacitor	
C37	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C38	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C39	10pF		SMD Multilayer Ceramic Capacitor	
C40	4.7nF		Polyester Capacitor	
C41	100MF	25V	SMD Aluminium Electrolytic Capacitor	
C42	6.8nF		Polyester Capacitor	
C43	100MF	25V	SMD Aluminium Electrolytic Capacitor	
C44	47pF		SMD Multilayer Ceramic Capacitor	
C45	47pF		SMD Multilayer Ceramic Capacitor	
C46	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C47	0.1MF		SMD Multilayer Ceramic Capacitor	
C48	33pF		SMD Multilayer Ceramic Capacitor	
C49	33pF		SMD Multilayer Ceramic Capacitor	

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Rif.	Value	Remarks	Description	Code
C50	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C51	100MF	25V	SMD Aluminium Electrolytic Capacitor	
C52	0.1MF		SMD Multilayer Ceramic Capacitor	
C53	0.1MF		SMD Multilayer Ceramic Capacitor	
C54	1MF / 16V		SMD Aluminium Electrolytic Capacitor	
C55	0.1MF		SMD Multilayer Ceramic Capacitor	
C56	1MF	16V	SMD Aluminium Electrolytic Capacitor	
C57	1MF	16V	SMD Aluminium Electrolytic Capacitor	
C58	1MF	16V	SMD Aluminium Electrolytic Capacitor	
C59	1MF	16V	SMD Aluminium Electrolytic Capacitor	
C60	1000MF	35V	Aluminium Electrolytic Capacitor	
C61	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C62	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C63	1000MF	16V	Aluminium Electrolytic Capacitor	
C64	47MF	16V	SMD Aluminium Electrolytic Capacitor	
C65	47MF	16V	SMD Aluminium Electrolytic Capacitor	
C66	0.1MF		SMD Multilayer Ceramic Capacitor	
C67	0.1MF		SMD Multilayer Ceramic Capacitor	
C68	0.1MF		SMD Multilayer Ceramic Capacitor	
C69	0.1MF		SMD Multilayer Ceramic Capacitor	
C70	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C71	0.1MF		SMD Multilayer Ceramic Capacitor	
C72	0.1MF		SMD Multilayer Ceramic Capacitor	
C73	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C74	0.1MF		SMD Multilayer Ceramic Capacitor	
C75	0.1MF		SMD Multilayer Ceramic Capacitor	
C76	47MF	35V	Aluminium Electrolytic Capacitor	
C77	0.1MF		SMD Multilayer Ceramic Capacitor	
C78	10nF		SMD Multilayer Ceramic Capacitor	
C79	220MF	35V	Aluminium Electrolytic Capacitor	
C80	220MF	35V	Aluminium Electrolytic Capacitor	
C81	47MF	16V	SMD Aluminium Electrolytic Capacitor	
C82	0.1MF		SMD Multilayer Ceramic Capacitor	
C83	0.1MF		SMD Multilayer Ceramic Capacitor	
C84	47MF	16V	SMD Aluminium Electrolytic Capacitor	
C85	0.1MF		SMD Multilayer Ceramic Capacitor	
C86	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C87	0.1MF		SMD Multilayer Ceramic Capacitor	
C88	0.1MF		SMD Multilayer Ceramic Capacitor	
C89	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C90	0.1MF		SMD Multilayer Ceramic Capacitor	
C91	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C92	0.1MF		SMD Multilayer Ceramic Capacitor	
C93	100MF	25V	Aluminium Electrolytic Capacitor	
C94	10MF	35V	Aluminium Electrolytic Capacitor	
C95	0.1MF		SMD Multilayer Ceramic Capacitor	
C96	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C97	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C98	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C99	4.7MF	35V	SMD Aluminium Electrolytic Capacitor	
C100	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C101	0.1MF		SMD Multilayer Ceramic Capacitor	

NICOM

Rif.	Value	Remarks	Description	Code
C102	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C103	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C104	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C105	0.1MF		SMD Multilayer Ceramic Capacitor	
C106	1000MF	16V	Aluminium Electrolytic Capacitor	
C107	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C108	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C109	1000MF	16V	Aluminium Electrolytic Capacitor	
C110	0.1MF		SMD Multilayer Ceramic Capacitor	
C111	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C112	0.1MF		SMD Multilayer Ceramic Capacitor	
C113	0.1MF		SMD Multilayer Ceramic Capacitor	
C114	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C115	0.1MF		SMD Multilayer Ceramic Capacitor	
C116	100pF		SMD Multilayer Ceramic Capacitor	
C117	3.3pF		SMD Multilayer Ceramic Capacitor	
C118	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C119	3.3pF		SMD Multilayer Ceramic Capacitor	
C120	100pF		SMD Multilayer Ceramic Capacitor	
C121	47MF	16V	SMD Aluminium Electrolytic Capacitor	
C122	100pF		SMD Multilayer Ceramic Capacitor	
C123	22pF		SMD Multilayer Ceramic Capacitor	
C124	10MF	35V	SMD Multilayer Ceramic Capacitor	
C125	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C126	0.1MF		SMD Multilayer Ceramic Capacitor	
C127	0.1MF		SMD Multilayer Ceramic Capacitor	
C128	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C129	1nF		SMD Multilayer Ceramic Capacitor	
C130	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C131	470MF	16V	Aluminium Electrolytic Capacitor	
C132	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C133	0.1MF		SMD Multilayer Ceramic Capacitor	
C134	470MF	16V	Aluminium Electrolytic Capacitor	
C135	1000MF	16V	Aluminium Electrolytic Capacitor	
C136	47MF	16V	SMD Aluminium Electrolytic Capacitor	
C137	220MF	16V	Aluminium Electrolytic Capacitor	
C138	1nF		SMD Multilayer Ceramic Capacitor	
C139	22MF	16V	SMD Aluminium Electrolytic Capacitor	
C140	2.2MF	50V	SMD Aluminium Electrolytic Capacitor	
C141	0.1MF		SMD Multilayer Ceramic Capacitor	
C142	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C143	0.1MF		SMD Multilayer Ceramic Capacitor	
C144	10MF	35V	SMD Aluminium Electrolytic Capacitor	
C145	1nF		SMD Multilayer Ceramic Capacitor	
C146	0.1MF		SMD Multilayer Ceramic Capacitor	
C147	4.7nF		SMD Multilayer Ceramic Capacitor	
C148	33pF		SMD Multilayer Ceramic Capacitor	
C149	NC		NC	
C150	10pF		SMD Multilayer Ceramic Capacitor	
C151	1nF		SMD Multilayer Ceramic Capacitor	
C152	220pF		SMD Multilayer Ceramic Capacitor	
C153	0.1MF		SMD Multilayer Ceramic Capacitor	

NICOM

Rif.	Value	Remarks	Description	Code
C154	39pF		SMD Multilayer Ceramic Capacitor	
C155	NC		NC	
C156	NC		NC	
C157	22pF		SMD Multilayer Ceramic Capacitor	
C158	22pF		SMD Multilayer Ceramic Capacitor	
C159	0.1MF		SMD Multilayer Ceramic Capacitor	
C160	1nF		SMD Multilayer Ceramic Capacitor	
C161	47MF	35V	Aluminium Electrolytic Capacitor	
C162	47MF	35V	Aluminium Electrolytic Capacitor	
C163	47MF	35V	Aluminium Electrolytic Capacitor	
C164	47MF	35V	Aluminium Electrolytic Capacitor	
C165	0.1MF		SMD Multilayer Ceramic Capacitor	
C166	100MF	16V	SMD Aluminium Electrolytic Capacitor	
C167	1nF		SMD Multilayer Ceramic Capacitor	
C168	1nF		SMD Multilayer Ceramic Capacitor	
L1	22uH		SMD Inductor	
L2	22uH		SMD Inductor	
L3	22uH		SMD Inductor	
L4	22uH		SMD Inductor	
L5	22uH		SMD Inductor	
L6	22uH		SMD Inductor	
L7	22uH		SMD Inductor	
L8	22uH		SMD Inductor	
L9	22uH		SMD Inductor	
L10	22uH		SMD Inductor	
L11	22uH		SMD Inductor	
L12	22uH		Suppression Choke	
L13	4.7mH		Suppression Choke	
L14	CHOKE		Suppression Choke	
L15	22uH		Suppression Choke	
L16	2.2uH		SMD Inductor	
L17	22uH		SMD Inductor	
L18	8T/0.6D		Enamelled Copper Wire	
L19	22uH		SMD Inductor	
L20	18T/0.4D		Enamelled Copper Wire	
L21	3T/.6D		Tinned Copper Wire	
L22	3T/.6D		Tinned Copper Wire	
L23	2T/.6D		Enamelled Copper Wire	
L24	3T/.6D		Tinned Copper Wire	
R1	2K2	1/4W	SMD Thick Film Resistor	
R2	2K2	1/4W	SMD Thick Film Resistor	
R3	10K	1/4W	SMD Cermet Skeleton Trimmer Resistor	
R4	10K	1/4W	SMD Thick Film Resistor	
R5	27K	1/4W	SMD Thick Film Resistor	
R6	47K	1/4W	SMD Thick Film Resistor	
R7	12K	1/4W	SMD Thick Film Resistor	
R8	47K	1/4W	SMD Thick Film Resistor	
R9	5K	1/4W	Multi Turn Cermet Trimmer Resistor	
R10	27K	1/4W	SMD Thick Film Resistor	
R11	47K	1/4W	SMD Thick Film Resistor	

NICOM

Rif.	Value	Remarks	Description	Code
R12	1K	1/4W	Multi Turn Cermet Trimmer Resistor Panel Mount	
R13	10K	1/4W	SMD Thick Film Resistor	
R14	12K	1/4W	SMD Thick Film Resistor	
R15	1K2	1/4W	SMD Thick Film Resistor	
R16	200	1/4W	SMD Cermet Skeleton Trimmer Resistor	
R17	3K9	1/4W	SMD Thick Film Resistor	
R18	1K2	1/4W	SMD Thick Film Resistor	
R19	3K9	1/4W	SMD Thick Film Resistor	
R20	1K	1/4W	Multi Turn Cermet Trimmer Resistor Panel Mount	
R21	12K	1/4W	SMD Thick Film Resistor	
R22	1K	1/4W	Multi Turn Cermet Trimmer Resistor Panel Mount	
R23	12K	1/4W	SMD Thick Film Resistor	
R24	33	1/4W	SMD Thick Film Resistor	
R25	220K	1/4W	SMD Thick Film Resistor	
R26	100K	1/4W	SMD Thick Film Resistor	
R27	1K	1/4W	Multi Turn Cermet Trimmer Resistor Panel Mount	
R28	4K7	1/4W	SMD Thick Film Resistor	
R29	10K	1/4W	SMD Thick Film Resistor	
R30	560K	1/4W	SMD Thick Film Resistor	
R31	100K	1/4W	SMD Thick Film Resistor	
R32	100K	1/4W	SMD Thick Film Resistor	
R33	33	1/4W	SMD Thick Film Resistor	
R34	NC	1/4W	SMD Thick Film Resistor	
R35	560K	1/4W	SMD Thick Film Resistor	
R36	10K	1/4W	SMD Thick Film Resistor	
R37	4K7	1/4W	SMD Thick Film Resistor	
R38	100	1/4W	SMD Thick Film Resistor	
R39	10K	1/4W	SMD Thick Film Resistor	
R40	1K2	1/4W	SMD Thick Film Resistor	
R41	1K2	1/4W	SMD Thick Film Resistor	
R42	10K	1/4W	SMD Thick Film Resistor	
R43	10K	1/4W	SMD Thick Film Resistor	
R44	10K	1/4W	SMD Thick Film Resistor	
R45	3K9	1/4W	SMD Thick Film Resistor	
R46	3K9	1/4W	SMD Thick Film Resistor	
R47	4K7	1/4W	SMD Thick Film Resistor	
R48	10K	1/4W	SMD Thick Film Resistor	
R49	2K2	1/4W	SMD Thick Film Resistor	
R50	10K	1/4W	Multi Turn Cermet Trimmer Resistor Panel Mount	
R51	4K7	1/4W	SMD Thick Film Resistor	
R52	10K	1/4W	Multi Turn Cermet Trimmer Resistor	
R53	10K	1/4W	SMD Thick Film Resistor	
R54	1K	1/4W	SMD Thick Film Resistor	
R55	10K	1/4W	SMD Thick Film Resistor	
R56	10K	1/4W	SMD Thick Film Resistor	
R57	10K	1/4W	SMD Thick Film Resistor	
R58	10K	1/4W	SMD Thick Film Resistor	
R59	NC		NC	
R60	NC		NC	
R61	NC		NC	
R62	10K	1/4W	SMD Thick Film Resistor	
R63	1K5	1/4W	SMD Thick Film Resistor	

NICOM

Rif.	Value	Remarks	Description	Code
R64	10K	1/4W	SMD Cermet Skeleton Trimmer Resistor	
R65	1K2	1/4W	SMD Thick Film Resistor	
R66	6k8	1/4W	SMD Thick Film Resistor	
R67	6k8	1/4W	SMD Thick Film Resistor	
R68	6k8	1/4W	SMD Thick Film Resistor	
R69	6k8	1/4W	SMD Thick Film Resistor	
R70	6k8	1/4W	SMD Thick Film Resistor	
R71	6k8	1/4W	SMD Thick Film Resistor	
R72	6k8	1/4W	SMD Thick Film Resistor	
R73	1K2	1/4W	SMD Thick Film Resistor	
R74	390	1/4W	SMD Thick Film Resistor	
R75	33	1/4W	SMD Thick Film Resistor	
R76	33	1/4W	SMD Thick Film Resistor	
R77	390	1/4W	SMD Thick Film Resistor	
R78	33	1/4W	SMD Thick Film Resistor	
R79	33	1/4W	SMD Thick Film Resistor	
R80	1K2	1/4W	SMD Thick Film Resistor	
R81	47K	1/4W	SMD Thick Film Resistor	
R82	47K	1/4W	SMD Thick Film Resistor	
R83	100K	1/4W	SMD Thick Film Resistor	
R84	27K	1/4W	SMD Thick Film Resistor	
R85	47K	1/4W	SMD Thick Film Resistor	
R86	47K	1/4W	SMD Thick Film Resistor	
R87	2K2	1/4W	SMD Thick Film Resistor	
R88	1K2	1/4W	SMD Thick Film Resistor	
R89	10	1/4W	SMD Thick Film Resistor	
R90	10	1/4W	SMD Thick Film Resistor	
R91	1K	1/4W	SMD Thick Film Resistor	
R92	4K7	1/4W	SMD Thick Film Resistor	
R93	47K	1/4W	SMD Thick Film Resistor	
R94	47K	1/4W	SMD Thick Film Resistor	
R95	47K	1/4W	SMD Thick Film Resistor	
R96	12K	1/4W	SMD Thick Film Resistor	
R97	47K	1/4W	SMD Thick Film Resistor	
R98	560	1/4W	SMD Thick Film Resistor	
R99	100	1/4W	SMD Thick Film Resistor	
R100	27K	1/4W	SMD Thick Film Resistor	
R101	18K	1/4W	SMD Thick Film Resistor	
R102	100K	1/4W	SMD Thick Film Resistor	
R103	10K	1/4W	SMD Thick Film Resistor	
R104	18K	1/4W	SMD Thick Film Resistor	
R105	10K	1/4W	SMD Thick Film Resistor	
R106	1K5	1/4W	SMD Thick Film Resistor	
R107	50K	1/4W	Multi Turn Cermet Trimmer Resistor	
R108	100	1/4W	SMD Thick Film Resistor	
R109	10K	1/4W	SMD Thick Film Resistor	
R110	10K	1/4W	SMD Thick Film Resistor	
R111	10K	1/4W	SMD Thick Film Resistor	
R112	15K	1/4W	SMD Thick Film Resistor	
R113	10K	1/4W	SMD Thick Film Resistor	
R114	4K7	1/4W	SMD Thick Film Resistor	
R115	50K	1/4W	Multi Turn Cermet Trimmer Resistor	