

Ivex View

Ivex Gerber viewer makes it easy to check your photo plots before making expensive film. Viewer reads Gerber files from your WinBoard™ PCB software and over 20 other vendors

Formats Supported: Academy, Allegro ArtWork, BoardMaker, Cadence V8.1, Cadnetics F1, CadStar V1.2.4, CadStar V6 and 7, Eagle, Ivex PCB, Layo 1 V4.92, Massteck V6.2, Maxroute, Mentor V8.x, Mentor VAX, MicroSim V6.2, OrCad V6.3, OrCad PCB-366, Pads, Protel, Sierra, Tango, UltiBoard V4.50, Winboard, X-Cad.



935-0014. WV01.....EACH 99.95

WinBoard and WinDraft for Windows

Version 3 is the latest release of the NTE's popular WinDraft electronic CAD software. This is the first major upgrade to the extremely successful WinDraft software since 1995.

WinDraft is a complete schematic design tool and within minutes you'll be designing your own schematics. Everything is included for wiring, drawing, printing and finishing your design. Full graphical library editor and title block editors are also included. Over 20 major user suggested enhancements are included in version 3 like a powerful new Bill of Materials, integration for PCB layout, expanded schematic editing, switchable pin text and many more.



The WD350 and WB350 include an 85-page getting started and tutorial manual for the programs.

935-0001. WD01V3. WinDraft 200 pin version, CD-ROM onlyEACH 43.64
935-0067. WB01. WinBoard 200 pin version, CD-ROM onlyEACH 32.95
935-0063. WD350. WinDraft 350 pin version, CD-ROM onlyEACH 109.95
935-0068. WB350. WinBoard 350 pin version, CD-ROM onlyEACH 109.95

Thermo-Pads

NTE's THERMO-PADS do away with the old fashioned and messy mica wafer and conductive grease method of mounting power semiconductors. These thermally conductive insulators offer low heat transfer resistance while still providing high electrical isolation between the parts of the assembly. The elastomeric material combines the electrical isolation of rigid insulators with the ability to conform to rough surfaces and reduce contact resistance in much the same manner as thermal greases. Proper selection and use of these thermo-pads results in a securely-mounted power semiconductor and minimum resistance to the the heat transfer between it and the heat sink.

Typical Properties
Color: .009 Inch Thickness — Gray; Test Method — Visual. **Breaking Strength, Lbs./Inch:** .009 Inch Thickness — 100; Test Method — ASTM D 1458. **Elongation, Percent:** .009 Inch Thickness — 4; Test Method — ASTM D 412. **Volume Resistance Ohm Metre Minimum Normal:** .009 Inch Thickness — 1.0×10^{13} ; Test Method — ASTM D 257. **Volume Resistance Ohm Metre Minimum Moist:** .009 Inch Thickness — 1.5×10^{10} ; Test Method — ASTM D 257. **Breakdown Voltage, Minimum Normal:** .009 Inch Thickness — 5000; Test Method — ASTM D 149. **Moist:** .009 Inch Thickness — 2500; Test Method — ASTM D 149. **Dielectric Constant 1000 Cps (HZ):** .009 Inch Thickness — 5.5; Test Method — ASTM D 150. **Continuous Use Temp. °C:** .009 Inch Thickness — 60 to +180. **Thermal Conductance W/m-k:** .009 Inch Thickness — 0.7. **Thermal Vacuum Weight Loss Percent (TML) Maximum As Manufactured:** .009 Inch Thickness — .40; Test Method — NASA. **Thermal Vacuum Weight Loss Percent (TML) Maximum Post Cure 24 Hrs @ 400 °F:** .009 Inch Thickness — .25; Test method — SP-R-0022A. **Volatile Condensable Material, Percent, Maximum (CVCm) As Manufactured:** .009 Inch Thickness — .11; Test Method — NASA. **Volatile Condensable Material, Percent, Maximum (CVCm) Post Cure 24 Hrs.@ 400°F:** .009 Inch Thickness — .07; Test Method — SP-R-0022A. **Hardness, Shore A:** .009 Inch Thickness — 85; Test Method — ASTM D 2240. **Specific Gravity:** .009 Inch Thickness — 2.0-2.1. **Thickness (Expressed In Inches):** .009 Inch Thickness — .009 (+.002, -.001). **Thermal Resistance (TO-3 Transistor) °C/Watt:** .009 Inch Thickness — .50.

935-6510. TP0001.....PER PKG./5 1.65
935-6512. TP0002.....PER PKG./5 1.39
935-6514. TP0003.....PER PKG./5 1.00
935-6516. TP0004.....PER PKG./5 .84
935-6518. TP0005.....PER PKG./5 1.24
935-6520. TP0006.....PER PKG./5 1.21
935-6522. TP0007.....PER PKG./5 1.24
935-6524. TP0008.....PER PKG./5 1.66
935-6526. TP0009.....PER PKG./5 1.66
935-6527. TP0010.....PER PKG./5 2.26

Insulator Kits

Each Kit Includes Mica insulator and nylon bushings.

Stock No.	Mfr.'s Type	Description	EACH
935-9413	NTE413	Insulator Kit for TO-3 Style Package	2.24*
935-9415	NTE415	Insulator Kit for TO-66 Style Package	1.99*
935-9422	NTE422	Insulator Kit for TO-220 (Plastic TO-66) Style Package	2.22*
935-9438	NTE438	Insulator Kit for DO-4 and TO-64 Stud Package. Includes Flat Washer, Solder Lug and Nut.	.70
935-9439	NTE439	Insulator Kit for DO-5 and TO-48 Stud Package. Includes Flat Washer, Lock Washer, Solder Lug and Nut	.88
935-9440	NTE303	Mica Insulator Grease	1.49†

*2 Per Package. †5 Per Package.

Bi-Polar Transistors

Stock No.	Mfr.'s Type	Polarity and Material	Description and Application	Case Style	Maximum Collector Current Amps	Maximum Breakdown Voltage			Typical Forward Current Gain	Maximum Collector Power Dissipation	Typical Freq. in MHz
						Collector to Base	Collector to Emitter	Emitter to Base			
						Ic	BVCbo	BVCeo			
935-6006	36	NPN-Si	AF Power Amp, High Current Switching (Compl to NTE37)	TO3P	12.00	160	140	6.0	100	100.000	15.0
935-6008	37	PNP-Si	AF Power Amp, High Current Switching (Compl to NTE36)	TO3P	12.00	160	140	6.0	100	100.000	15.0
935-6500	39	PNP-Si	Line Operated Series Pass and Switching Reg. (Compl to NTE157)	TO126	0.50	300	300	3.0	92	20.000	—
935-6010	46	NPN-Si	Darlington, Gen Purpose Amp, Preamp, Driver	TO92	0.50	100	100	12.0	10,000 Min.	0.625	200.0
935-6012	51	NPN-Si	High Voltage/Speed Switching Switchmode Applications, tf = 0.4µs Typ	TO220	4.00	700	400	9.0	30	75.000	4.0 Min.
935-6014	53	NPN-Si	High Voltage/Speed Switching Switchmode Applications, tf = 0.7µs Typ	TO3	15.00	850	400	9.0	25	175.000	6.0 Min.
935-6016	54	NPN-Si	High Freq. Driver for Audio Amplifiers (Compl to NTE55)	TO220	8.00	150	150	5.0	100	50.000	30.0 Min.
935-6018	55	PNP-Si	High Freq. Driver for Audio Amplifiers (Compl to NTE54)	TO220	8.00	150	150	5.0	120	50.000	30.0 Min.
935-0085	85	NPN-Si	General Purpose Amp, Hi-Fi Drivers	TO92	0.40	70	70 (CES)	4.0	120 Min.	0.625	200.0 Min.
935-6024	89	NPN-Si	Color TV Horizontal Output with Internal Damper Diode tf = 1.0µs Max	TO3	7.00	1500	600	6.0	8	50.000	—
935-6026	90	NPN-Si	General Purpose High Gain Amp (Compl to NTE91)	Giant TO92	0.05	120	120	5.0	400 Min.	0.750	350.0
935-6028	91	NPN-Si	General purpose High Gain Amp (Compl to NTE90)	Giant TO92	0.05	120	120	5.0	400 Min.	0.750	150.0
935-6032	94	NPN-Si	High Voltage Inverter, Converter, Regulator and Switching Circuits	TO3	5.00	300	300	5.0	40	100.000	2.5 Min.
935-0098	98	NPN-Si	HV Darlington Power Amp, Fast Sw	TO3	20.00	700	500	8.0	40 Min.	175.000	—
935-6034	100	PNP-Ge	Oscillator, Mixer for AM Radio, Medium Speed Switch (Compl to NTE101)	TO5	0.30	25	20 (CER)	12.0	40 at 455 KHz	0.150	5.0
935-6036	101	NPN-Ge	Oscillator, Mixer for AM Radio, Medium Speed Switch (Compl to NTE100)	TO5	0.30	25	20 (CER)	20.0	40 at 455 KHz	0.150	5.0
935-0715	102	PNP-Ge	Driver, Power Output, Switch (Compl to NTE103)	TO5	0.30	30	16 (CER)	25.0	100	0.150	—
935-0720	102A	PNP-Ge	Medium Power Amplifier (Compl to NTE103A)	TO1	1.00	32	32 (CES)	10.0	120	0.650	—
935-6502	103	NPN-Ge	Power Output Driver, Switch (Compl to NTE102)	TO5	0.30	30	16 (CER)	25.0	115	0.150	—
935-6038	103A	NPN-Ge	Medium Power Amplifier (Compl to NTE102A)	TO1	1.00	32	32 (CES)	10.0	110	0.650	—

For quantity pricing or parts not listed, contact the Allied facility nearest you at 1-800-433-5700. *Tc = 25 °C.