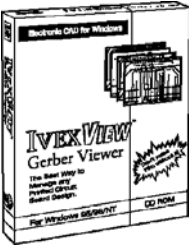


Ivex View

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.