INTRODUCTION

CERNEX, INC., is a company with a commitment to product excellence and technological expertise in state-of-the-art thin-film hybrid, MIMIC and discrete microwave and millimeter-wave components, and sub-assemblies up to 1000Ghz. Our company was established to provide products and services to growing markets such as wireless telecommunic -nications aerospace, defense and fiber optic communications industry.

The company was incorporated in 1988 to develop and manufacture high quality active & passive components, waveguide products, ferrite products, antenna products, sub-systems and various other microwave and millimeter-wave products for the commercial and military markets. Our excellent technical staff and production facility enable the company to respond quickly to customers’ needs.

Our goal is to achieve the highest quality performance, reliability, service and on-time delivery, and to exceed our customers’ expectations. This goal has allowed our company to maintain a steady growth over the past few years.

Our management team consists of a team of senior design engineers and sales/marketing staff with over 350 man-years of experience in the microwave and millimeter-wave businesses.
### Nomenclature (03/14)

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**OSCILLATORS & NOISE SOURCES**
- Mech. Tuned Gunn Osc. (CMG)
- Varactor Tuned Gunn Osc. (CVG)
- Bias Tuned Gunn Osc. (CBG)
- DRO (CDO)
- PLO (CPO)
- VCO (CVO)
- Full Band Noise Source (CNS)
- Full Band Noise Figure and Gain Test Extenders (CNF)
- Wide Tuning Bandwidth (CMGW)
- Mechanical Gunn Osc. (CMGL)

**SWITCHES**
- SPST Switch (CIT)
- SPDT Switch (C2T)
- SPTT Switch (C3T)
- SP4T Switch (C4T)
- Rotary Switch (CRT)
- Two Position Solenoid Switch (CTP)
- Mechanical Switch (Electro-Mech.) (CSM)
- Polarization Switches (CZS)
- Mechanical Waveguide Switches (CWS)
- Coaxial Switches (CTC)

**PHASE SHIFTERS**
- Phase Shifters (CPS)
- Motorized Rotary Vane Phase Shifter (CMP)
- Ferrite Phase Shifters (CFS)
- Micrometer Cal. Phase Shifters (CMS)
- Direct Reading Phase Shifters (CDS)
- Digital Phase Shifters (CSD)
- Differential Phase shifters (CDD)

**TRANSITION & ADAPTERS**
- Waveguide to Waveguide (CWW)
- Waveguide to Coax (CWK)
- Rectangular to Circular (CRC)
- Tapered Mode (CTM)
- Flange Adapter (CWF)
- Coaxial Adapters

**WAVEGUIDE PRODUCTS**
- Waveguide Section (CSS)
- Waveguide Section(Block) (CSSB)
- Circular Waveguide Section (CSSC)
- Waveguide Twist (CTS)
- Waveguide E/H Bends 90° (CBW)
- Waveguide E/H Bends(Block) (CWBB)
- Waveguide Short (CSW)
- Adjustable Waveguide Short (CAS)
- Rotary Joint (CRJ)
- Frequency Meters (CMF)
- Direct Reading Freq. Meters (CDM)
- Hybrid Tees (CHT)
- E & H Plane Series Tees (CTE)
- Single Hybrid Ring (CHR)
- E/H Plane Tuners (CPT)
- 90 degree Hybrid (CBH)
- Circular Waveguide Section (CCS)
- 3dB Short Slot hybrid (CSH)
- Waveguide Flanges (CWR)
- Flexible/Twistable Waveguide (CFT)
- Flexible Waveguide (CFW)
- Power Sampler (CPR)
- Waveguide Tuner (CWT)
- Waveguide Combiner (CCW)
- Elliptic Waveguide (CEW)
- Pressure Windows (CPW)
- Power Sensor (CPWS)
- Waveguide Open (COW)
- Waveguide Short (CSW)
- Pressure Inlet (CPI)

**TERMINATIONS**
- Coaxial Load (CCL)
- High Power Load Termination (CWL)
- Sliding Matched Termination (CST)
- DC Block (CDB)
- Chip Power Termination (CSL)
- Flange Termination (CFL)

**MIXERS**
- Balance Mixers (CMB)
- Harmonics Mixers (CHM)
- Rejection Mixers (CRM)
- I/Q Mixers (CQM)
- Quadrature Mixers and Phase Detectors (CQMP)
- Subharmonic Pumped Mixers (CSHM)

**ATTENUATORS**
- Fixed Setting Attenuators (CFA)
- Level Set Attenuators (CSA)
- Micrometer Cal. Attenuators (CMC)
- Direct Reading Precision Attenuator (CDA)
- Pin Diode Attenuator (CPD)
- Programmable Rotary Attenuator (CRV)
- Voltage Controlled Attenuators (CVA)
- Digital Controlled Attenuators (CAD)
ATTENUATORS
Step Attenuators CAT BIAS TEE CBT
Chip Power Attenuators CFAS LIMITER CLM
Flange Power Attenuators CFAF POWER COMBINER/DIVIDER CDP
Rotary Step Attenuators CSAR CABLE ASSEMBLIES
Push Button Step Attenuators CSAP VOLTAGE REGULATORS CVR
Toggle Switch Step Attenuators CSAT EQUALIZER CGE

RESISTORS
Chip Power Resistors CRS SYNTHESIZER CSY
Flange Power Resistors CRF PIN DIODE MODULATOR CPM

DETECTORS
Finline Detectors CFD TEST KITS CKT
Balanced Phase Detector CBD CALIBRATION KITS CCK
Amplitude Detector CMD VNA TEST CABLES CVNA

SUBSYSTEMS
Subsystems CSR MINI JACKS CMJ

RECEIVER SUB-ASSEMBLIES CRX AND MODULES

TRANSMITTER SUB-ASSEMBLIES CTX AND MODULES

TRANSCEIVER SUB-ASSEMBLIES CTR AND MODULES

RF FEEDTHRU CFE LOW NOISE BLOCK CONVERTER CNB
AMPLIFIERS: GaAs, PHEMT, GaN

BROADBAND LOW NOISE AMPLIFIERS:

0.001-110GHz (Octave and Multi-Octave) With Noise Figure As Low As 2dB.

0.5-2GHz; 0.5-12GHz; 0.5-20GHz; 0.5-40GHz; 2-4GHz; 2-8GHz; 2-20GHz; 2-26.5GHz; 3.7-12GHz; 5-15GHz; 6-18GHz; 18-26.5GHz; 18-40GHz; 26.5-40GHz; 57-65GHz; 85-97GHz; 75-110GHz.

BROADBAND MEDIUM POWER AMPLIFIERS:

0.001-97GHz (Octave and Multi-Octave) With Output Power Up To 30dBm.

0.5-2GHz; 0.5-4GHz; 0.5-6GHz; 0.5-8GHz; 0.5-10GHz; 0.5-12GHz; 0.5-14GHz; 0.5-20GHz; 2-4GHz; 2-8GHz; 2-20GHz; 2-50GHz; 3.7-12GHz; 5-15GHz; 6-18GHz; 18-26.5GHz; 18-40GHz; 26.5-40GHz; 40GHz-60GHz; 71-76GHz; 81-86GHz; 90-97GHz; 75-110GHz.

BROADBAND HIGH POWER AMPLIFIERS:

0.001-45GHz (Octave and Multi-Octave) With Output Power Up To 53dBm.

0.5-2GHz; 2-4GHz; 2-8GHz; 4-8GHz; 6-18GHz; 3.7-12GHz; 5-15GHz; 8-12GHz; 12-18GHz; 18-20GHz; 18-26.5GHz; 26.5-40GHz; 40-50GHz.

NARROWBAND LOW NOISE AMPLIFIERS:

0.001-97GHz With Noise Figure As Low As 0.30dB At L-Band, And 6dB At 110GHz.

NARROWBAND MEDIUM POWER AMPLIFIERS:

0.001-96GHz With Output Power Up To 33dBm At Q Band.

NARROWBAND HIGH POWER AMPLIFIERS:

0.001-45GHz With Output Power Up To 1000W At L & C Band.

LIMITING AMPLIFIERS:

0.001-60GHz (Octave and Multi-Octave) With Medium And High Gain.

0.5-2GHz; 2-8GHz; 2-18GHz; 4-8GHz; 6-18GHz; 8-12GHz; 8-20GHz; 18-26.5GHz; 26.5-40GHz; 40GHz-60GHz.
RACK MOUNT AMPLIFIERS (19 INCHES):

0.5-2GHz (20W - 50W); 0.8-2.5GHz (20W - 300W);
1-2GHz (20W - 300W); 2-4GHz (20W - 300W); 2-6GHz (10W - 300W);
2-8GHz (10W - 100W); 4-8GHz (20W - 100W);
8-12GHz(20W - 100W); 6-18GHz (10W - 100W);
18-26.5GHz (5W; 20W); 26.5-40GHz (2W - 20W).

DESK TOP AMPLIFIERS (12 INCHES):

LNA: 1-40GHz (5dB NF); 1-50GHz (7dB NF); 1-75GHz (9dB NF).

0.5-2GHz (5W); 0.8-2.5GHz (5W & 10W); 1-2GHz (5W & 10W);
2-4GHz (5W & 10W); 2-6GHz (5W); 2-8GHz (5W); 4-8GHz (10W);
8-12GHz (5W & 10W); 6-18GHz (2W, 4W & 5W); 18-26.5GHz
(1W & 2W); 26.5-40GHz (1W & 2W).

BENCHTOP AMPLIFIERS GaAs & PHEMT:

LNA: 1-40GHz (5dB NF); 1-50GHz (7dB NF); 1-75GHz (9dB NF).

0.5-2GHz (5W); 0.8-2.5GHz (5W & 10W); 1-2GHz (5W & 10W);
2-4GHz (5W & 10W); 2-6GHz (5W); 2-8GHz (5W); 4-8GHz (10W);
8-12GHz (5W & 10W); 6-18GHz (2W, 4W & 5W); 18-26.5GHz
(1W & 2W); 26.5-40GHz (1W & 2W)
30KHz-10GHz;30KHz-12GHz;30KHz-14GHz;50KHz-18GHz;50KHz-20GHz
75KHz-45GHz;75KHz-50GHz,75KHz-78GHz

DESK TOP MULTIPLIERS (12 INCHES):

INPUT FREQUENCY: 2.5GHz
OUTPUT FREQUENCIES: 5GHz; 10GHz; 20GHz & 40GHz.

DESK TOP PRESCALARS (12 INCHES):

INPUT FREQUENCY: 40GHz @ 0dBm
OUTPUT FREQUENCIES: 20GHz, 10GHz & 5GHz @ 0dBm

SATCOM WAVEGUIDE LNAs:

L-Band; S-Band; C-Band; X-Band; Ku-Band, Ka-Band
AMPLIFIERS FOR OPTICAL FIBER COMMUNICATIONS:

Broadband Modulator Driver Amplifiers (NRZ) for Optical Fiber Communications Up To 40Gb/s With Output Voltage of 3-8 Vp-p.

30KHz-10GHz; 30KHz-12GHz; 30KHz-14GHz; 50KHz-18GHz; 50KHz-20GHz; 75KHz-45GHz; 75KHz-50GHz; 75KHz-78GHz.

Driver Amplifiers (RZ) for Clock Recovery and Forward Error Correction Up To 100Gb/s With Output Voltage Up To 30 Vp-p.

20Gbs & 40Gbs Clock Recovery Amplifiers

FREQUENCY MULTIPLIERS UP TO 1000GHZ:

PASSIVE FREQUENCY MULTIPLIERS:

With Input Frequency As Low As 0.01GHz, And Output Frequency As High As 500GHz.

ACTIVE FREQUENCY MULTIPLIERS:

With Input Frequency As Low As 0.01GHz, And Output Frequency As High As 120GHz. Multiplication Factors From 2 to 64.

FREQUENCY DIVIDERS:

With Input Frequency As High As 40GHz, And Output Frequency As Low As 0.1GHz.
MIXERS & DETECTORS UP TO 1000GHz:

SOURCES UP TO 160GHz:
Mechanically Tuned Gunn Oscillators, Varactor-Tuned Gunn Oscillators, DROs, VCOs, PLOs, Injection Locked Oscillators & Noise Sources.

CONTROL COMPONENTS UP TO 160GHz:
Direct Reading Precision Attenuators, Programmable Rotary Vane Attenuators, Uncalibrated Variable Attenuators, Dial-Driven Calibrated Attenuators, Micrometer-Driven Calibrated Attenuators, Variable PIN Attenuators. Frequency Meters & Direct Reading Frequency Meters.

ATTENUATORS UP TO 160GHz:

SWITCHES UP TO 160GHz:
Mechanical Waveguide Switches, Electromechanical Waveguide Switches, PIN Switches (SP1T To SP16T, Full-band Switches).

FERRITE PRODUCTS UP TO 170GHz:
Fullband Junction Circulators And Isolators. (18-26.5GHz; 26.5-40GHz; 33-50GHz; 40-60GHz; 50-75GHz; 60-90GHz & 75-110GHz). High Power Isolators And Circulators, Coaxial And Drop-in Isolators And Circulators.

FILTERS & DIPLEXERS UP TO 160GHz:
BandPass Filters, Low Pass Filters, HighPass Filters & Notch Filters.
BIAS TEES:
Waveguide & Coaxial Bias Tees Up To 110Ghz.

WAVEGUIDE & COXIAL COUPLERS UP TO 160GHz:
Directional & Bi-directional Couplers, Precision High Directivity Couplers, Crossguide Couplers, 3dB Hybrid 90 Degree And 180 Degree Couplers.

POWER COMBINERS AND DIVIDERS UP TO 60GHz:
Waveguide & Coaxial 2 To 24 Way Combiners/Dividers.

WAVEGUIDE AND COXIAL PHASE SHIFTERS:
Direct Reading & Variable Phase Shifters.

TERMINATIONS AND LOADS UP TO 160Ghz:

TRANSITIONS / ADAPTERS UP TO 110GHz:
Low Loss Cosine & Linear Tapered Mode Transitions, Circular To Rectangular Waveguide Transitions, Waveguide To Coax Transitions, Coaxial Adapters (1mm, 1.8mm, 2.4mm, 3.5mm, SMA etc.. In Series And Between Series).

WAVEGUIDE PRODUCTS UP TO 1000Ghz:
Matched Hybrid Tees, E-Plane And H-Plane Tees.

DETECTORS UP TO 1000GHz:
Finline Detectors, Balance Phase Detectors & BroadBand Detectors.

ANTENNA PRODUCTS UP TO 1000GHz:
Horn Lens Antennas, Standard Gain Horn Antennas, Scalar & Wide Angle Scalar Feed Horn Antennas, Cassegrain Reflector Antennas, Prime Focus Antennas, Orthomode Transducers, Linear To Circular Fixed And Switchable Polarizers, Parabolic Grid Antennas, GPS Antennas & Flat Panel Antennas.

ASSEMBLIES AND SUBSYSTEMS:
Up/Down Converters, Sat-Com Up/Down Converters, Dual & Tri-Band Block Down Converters, Transmitters, Generic Transceivers & Antenna-Related Subsystems.

SYSTEMS PRODUCTS CAPABILITY:
Sensor Products, Communication Products, Remote Sensing Products, Surveillance And EW Products.

NOTES: PLEASE, CONTACT THE FACTORY FOR ALL YOUR OTHER SPECIAL REQUIREMENTS. WE ALSO HAVE PRODUCTS, WHICH ARE NOT YET MENTIONED IN THIS BROCHURE. DATASHEETS FOR EACH PRODUCT CAN BE DOWN LOADED FROM OUR WEBSITE.
ADAPTORS

IN SERIES ADAPTORS:

- TNC-TNC adaptors (DC~11GHz)
- BNC-BNC adaptors (DC~8GHz)
- SMA-SMA adaptors (DC~27GHz)
- 3.5mm-3.5mm adaptors (DC~33GHz)
- 2.4mm-2.4mm adaptors (DC~50GHz)
- 1mm-1mm adaptors (DC~110GHz)

- TNCA-TNCA adaptors (DC~18GHz)
- N-N adaptors (DC~18GHz)
- SSMA-SSMA adaptors (DC~40GHz)
- 2.92mm-2.92mm adaptors (DC~40GHz)
- 1.85mm-1.85mm adaptors (DC~65GHz)

BETWEEN SERIES ADAPTORS:

- 7mm to N
- SMA to L16
- 2.4mm to N
- N to TNCA
- 2.4mm to 3.5mm
- 2.4mm to 2.92mm
- 2.4mm to SMA
- 2.4mm to SSMA
- SMA to TNCA
- 3.5mm to 7mm
- 3.5mm to N
- N to BNC
- SMA to N
- 1.85mm to 3.5mm
- 1.85mm to 2.92mm
- 1.85mm to 2.4mm
- SMA to BNC
- SSMA to SMA
- L16 to N
- 2.92mm to N
- N to TNC
- 2.9mm to 3.5mm
- SMA to 3.5mm
- 2.92mm to SMA
- 2.92mm to SSMA
- SMA to TNC
- 1mm to 1.85mm

RIGHT ANGLE ADAPTORS:

- TNC, N, SMA 3.5mm, 2.92mm, 2.4mm Series