

2018年度版 NEW PRODUCTS

Products Line up

Extenders up to 500GHz/For Spectrum Analyzer,
Extenders up to 500GHz/For Vector Network Analyzer
Programmable Step Attenuators
DC-18 GHz Programmable Step Attenuator
Power Sensors
Instrumentation Amplifiers
GaN Power Transistors
Amplifier Modules
Surface Mount Circulators Up to 18 GHz
VNA TEST CABLES N, 3.5mm, 2.92mm, 2.4mm
DC-50GHz Phase Stable Cable Assemblies

500GHz対応スペアナ用エクステンダー
500GHz対応ネットアナ用エクステンダー
ステップアッテネーター
18GHz ステップアッテネーター
パワーセンサー
ラックマウント アンプ
GaN パワートランサース
モジュールアンプ
サーキュレーター
ネットアナ用テストケーブル
50GHz対応ケーブルアセンブリー

CERNEX, Inc.

TSS-Japan

CERNEX VS CERNEXWAVE

- ◆ CERNEX: A Military Company & ITAR
Registered
AS 9100 & ISO 9001-2015
- ◆ CERNEXWAVE: A Commercial Company.
ISO 9001-2015

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New Products



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Frequency Source Extenders Up to 500Ghz



HIGH FREQUENCY TEST SET UPS

Network
Analyzer

Signal
Sources



OR



X2



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Spectrum Analyzer Extenders Up to 500Ghz



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Spectrum Analyzer Extender Set-Up



CERNEX, Inc.

VNA Extenders Up to 500Ghz



CERNEX, Inc.

VNA Extender Set-Up



CERNEX, Inc.

CernexWave

Vector Network Analyzer Extenders

P/N: CVNA15 回 7503, CVNA107511003, CVNA06110171 側 D,

CVNA05170220N10 CVNA03220325N13 CVNA 恒 325500阻 3



Frequency range	50GHz ~ 75GHz	75GHz ~ 110GHz	110GHz ~ 170GHz	170GHz ~ 220GHz	220GHz ~ 325GHz	325GHz ~ 500GHz
Output power	+3dBm	+3dBm	-10dBm	-10dBm	-13dBm	-23dBm
Dynamic range (dB)	95	95	100	100	100	80
Reflection tracking (dB)	±0.15	±0.15	±0.15	±0.15	±0.2	±0.3
Transmission tracking (dB)	±0.15	±0.15	±0.15	±0.15	±0.2	±0.3
Effective directivity (dB)	38				25	20
Effective source match (dB)	36		34	30	25	25
Effective load match (dB)	38	31	34	30	25	25
Connector type	WR15, system impedance 1Ω	WR10, system impedance 1Ω	WR06, system impedance 1Ω	WR05, system impedance 1Ω	WR03, system impedance 1Ω	WR02, system impedance 1Ω
Working voltage	12VDC@2A	12VDC@2A	12VDC@2A	12VDC@2A	12VDC@2A	12VDC@2A
Size	120×90×24	120×90×24	120×90×24	120×90×24	120×90×24	120×90×24

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Programmable Step Attenuators



DC-26.5GHz, DC-40GHz & DC-50GHz

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DC-18 GHz Programmable Step Attenuator



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Power Sensors



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Instrumentation Amplifiers



Instrumentation Amplifiers Features

- Output Power Display in dBm & Watt
- Output Power vs Frequency Display
- Max. Input Power Indication
- Variable Gain & Power Control Knob
- Functional & Standby Modes
- Remote Control Via GPIB or WLAN Connection

Instrumentation Amplifiers

- 1-2.5GHz (100W)
- 0.5-6Ghz (40W)
- 2-18GHz (20-80W)
- 6-18GHz (20W,50W, 100W)
- 18-26.5 GHz (10W,20W,50W)
- 18-40GHz (10-80W)
- 26-40GHz (10W.20W.40W)
- 40-67GHz (1W)
- 75-110GHz (0.25W)

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18-40 GHz 1W Instrument Amplifier



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92-96 GHz 1W Instrument Amplifier



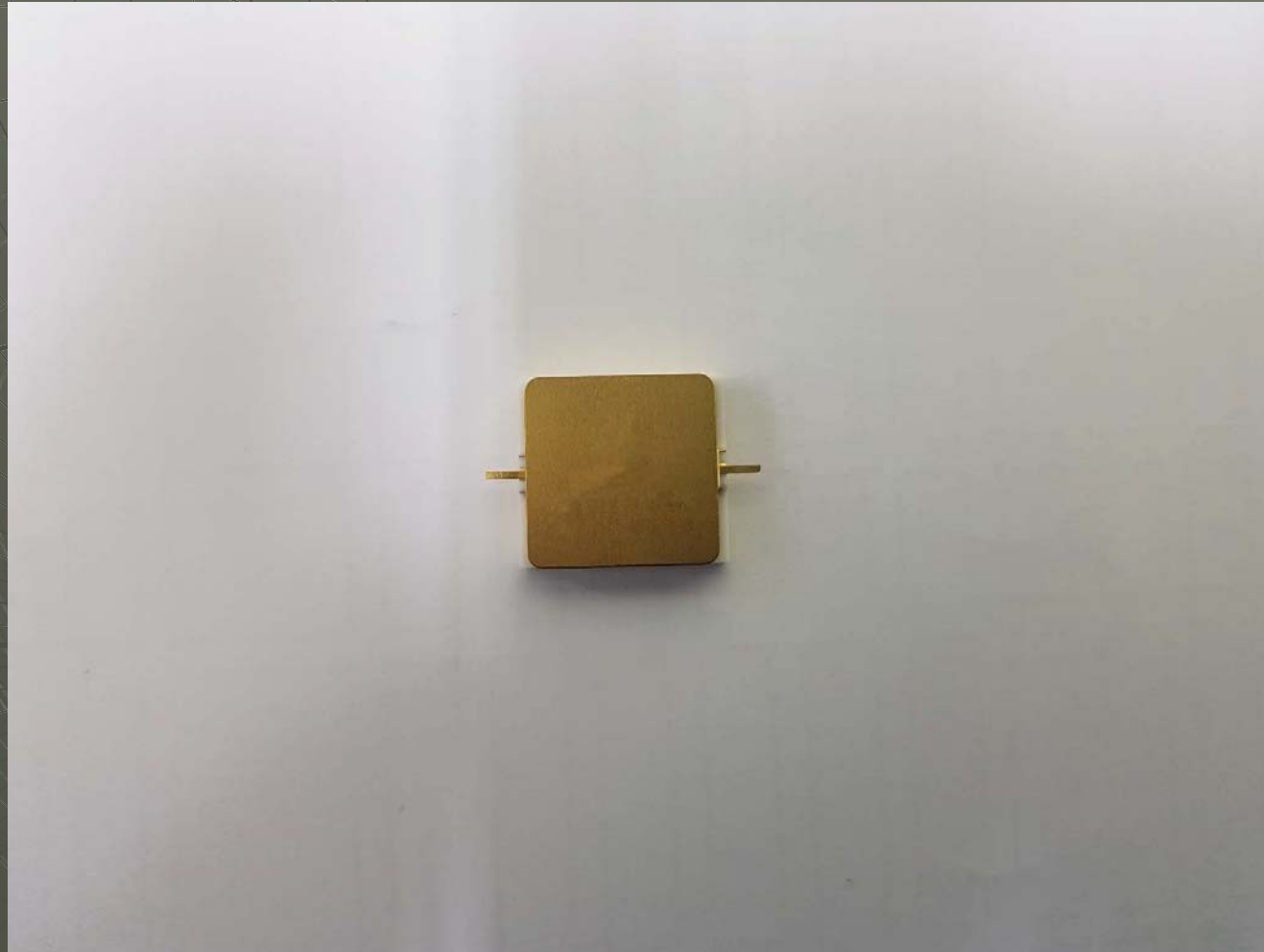
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GaN Power Transistors



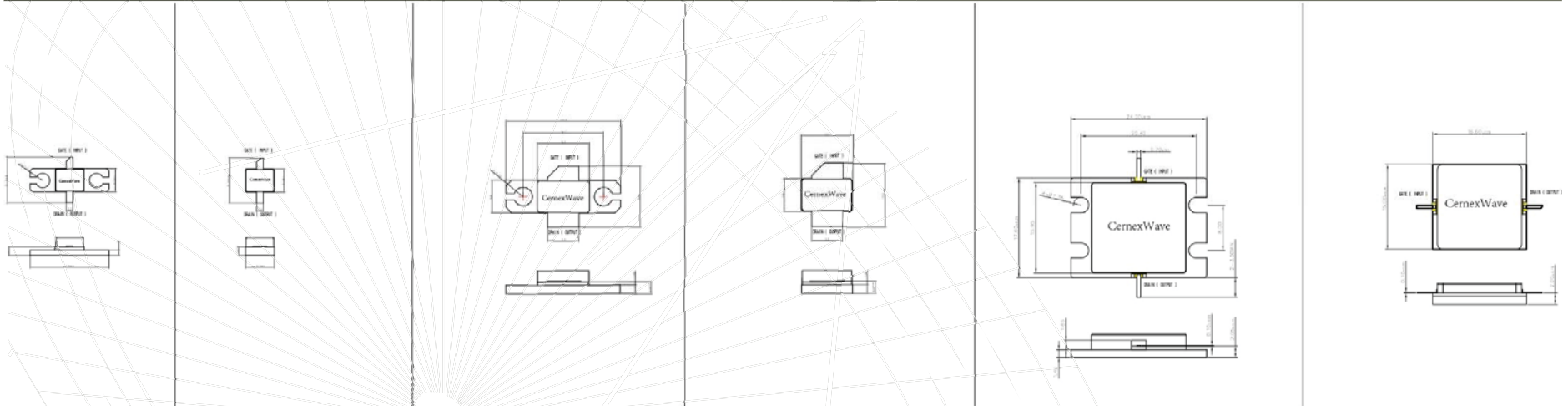
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GaN Power Transistors



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GaN Power Transistors



GaN Power Transistors

- DC-10GHz, 48V
 - 10-350W
- DC-20GHz, 28V
 - 2-50W

New Amplifier Modules (GaAs)

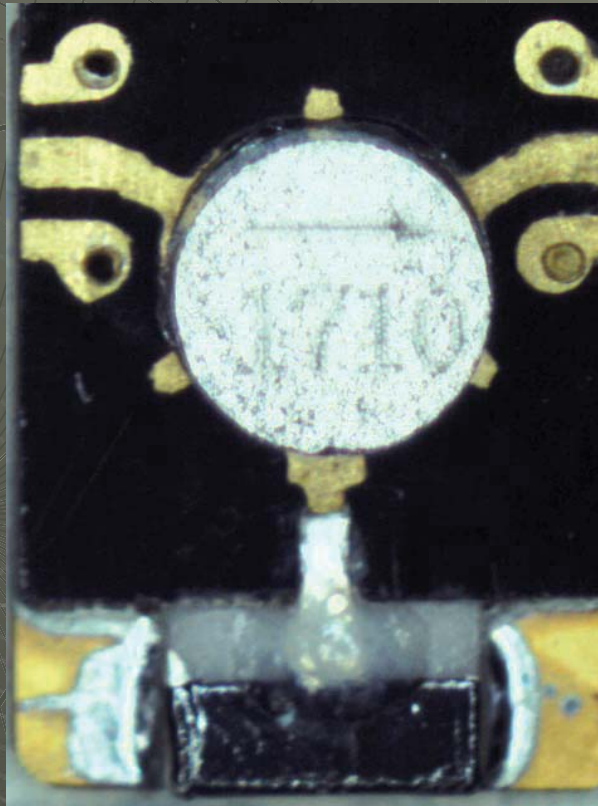
- ◆ 0.5-6GHz 3W,4W,5W, 10W(P1dB) EMC
- ◆ 0.5-8 GHz 3W, 5W, 8W , 15W (P1dB)
- ◆ 18-26.5 GHz 5W P1dB
- ◆ 18-40 GHz 2W P1dB
- ◆ 24-31GHz 2W, 4W, 5W (5G)
- ◆ 26.5-40 GHz 1W, 2W,3W,4W,5W

New Amplifier Modules (GaN)

- ◆ 0.7-6 GHz, 30W, 50W, 100W Psat
- ◆ 20Mhz-6GHz 25W Psat
- ◆ 8-12 GHz 100W Psat
- ◆ 6-18 GHz 50W Psat
- ◆ 2-18 GHz 20W Psat
- ◆ 2-18 GHz 30W Psat
- ◆ 24-31GHz 10W,20W,40W (5G)

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Microstrip Isolators and Circulators For 5G & Military Applications



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Microstrip Isolators and Circulators For 5G & Military Applications



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Surface Mount Circulators Up to 18 GHz



VNA TEST CABLES

N, 3.5mm, 2.92mm, 2.4mm



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SMA, N, 3.5mm, 2.92mm, 2.4mm DC-50GHz Phase Stable Cable Assemblies



Goals & Directions

- ◆ TO BE A ONE-STOP SHOP
MICROWAVE AND MILLIMETER-
WAVE PRODUCTS