

Product Excellence

- ▣ Market Analysis-Market Segmentation
- ▣ Company and Product Branding
- ▣ New Product Development
- ▣ Market Need Analysis
- ▣ Product Life Cycle and Renewal
- ▣ Customer Retention and Development
- ▣ New Customer Development
- ▣ Developing products with and for Customers.
- ▣ 99.5% Customer Satisfaction
- ▣ New ways to Sell and Market.
- ▣ B2B Products
- ▣ B2C Products
- ▣ Sales Process Optimization

Equalizers Pads, Plug-ins, Duplex Filters etc.

- ❑ Premier manufacturer:
- ❑ Approved by virtually all cable companies
- ❑ Manufacturer to the Manufacturer's
- ❑ All makes and models
- ❑ Custom applications available



Magnavox/Philips



62E-without Cover ,72e- with cover, Forward Equalizers ,
TG- Tilt Generators, IE- Inter-Stage Equalizers,
C- Compensators/Cable Simulators
550, 600,750,862,and 1 GHZ



Attenuator pads,9A.,9a-WC,10a,10a-wC 1 GHz

Jerrold/General Instruments/Motorola



450,550,750,860, and 1 GHz splitters, Dir. Couplers, Equalizers, Inverse , Cable Simulators in three different styles.



Rev. EQ's- SEES-,SEER-,MGIRE-,SEEK,SRES-,SREK-33,42,55,65, MHz



450 MHZ thru 1.2 GHz and Breakaway and Thermal

Jerrold/General Instruments/Motorola



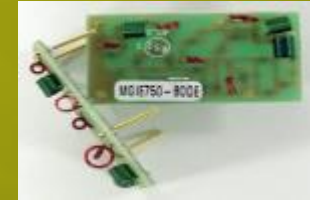
Reverse Amp
Kits



Conversion
Plates



Thermal
Pads



Bode Eq's
750/860/1
GHz



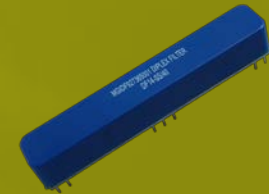
Duplex Filters



Tap Eq's and
Compensators



Tap Pads



Duplex Filters

Scientific Atlanta/Cisco

Gainmaker Style 750 MHz and 1 GHz



1 GHz
Pads



Trim Networks



Reverse Eq's
33/42/55/65 MHz



Splitters/ Dir. Cplrs



Equalizers/Inverses/Cable Sims.

Scientific Atlanta/Cisco

Too many to list!



Forward Equalizers and
Compensators 550 MHz
and 750Mhz



Reverse Equalizers Thermal
Equalizers 33 MHz and 40
MHz



Reverse Var. Eq's.



Reverse Eq's



Inter-Stage Equalizers



Attenuator Pads



Prisma plug-ins



Feeder Maker

Arris/Antec



750 and 870 MHz
Equalizers



Linear
Equalizers



750 and 870 MHz
Cable Simulators



Splitters/DC's
And Peakers



42/55/65 MHz
Return Equalizers



Pads

C-Cor/Arris



750 ,860 MHz Forward
Equalizers and Cable
Simulators/Compensators



1GHz Equalizers
Simulators/Compensators
and Reverse Equalizers



Reverse Equalizers
33/42/5/65 MHz



Linear Equalizers,
Splitters , Dir. Couplers
etc.



Attenuator Pads
SPB-



Attenuator
Pads IPB-,
NPB-



Texscan-T series Pathmaker



550 and 750 MHz
Forward Equalizers
And Compensators



Attenuator Pads



450 MHz Equalizers



Attenuator Pads

Augat



750 and 870 MHz Forward Equalizers



42 MHz Reverse Equalizers

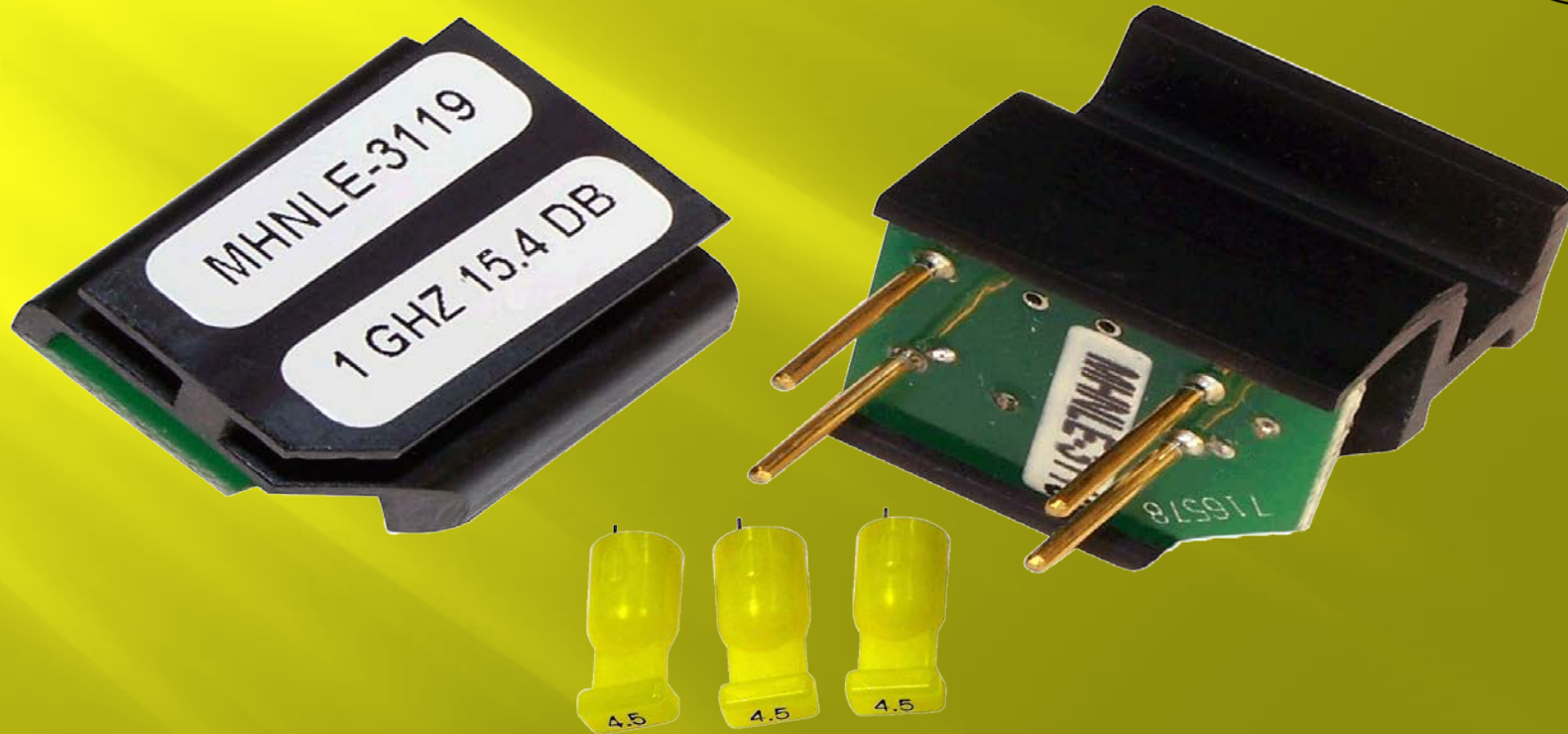


Attenuator Pads

Aurora



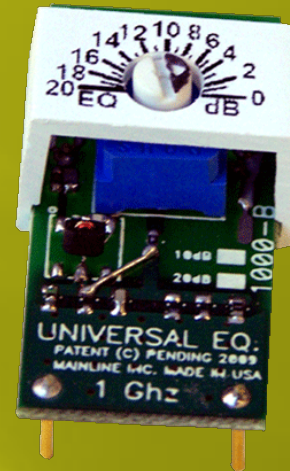
Harmonic



VARI-E-Q™



Patented 2010
Compensators and Equalizers
Available now
Reverse in 2nd QTR 2015



Motorola/General Instruments Style SFE100/* Series
SCS100/* Series

Insertion Loss: 1 dB (at 1003 MHz)

Pass band Flatness: **+/-0.75 dB** cable equivalent

Return Loss I/O: **16/16 dB**

VARI-E-QTM



Patented 2010
Compensators and
Equalizers

Available now!

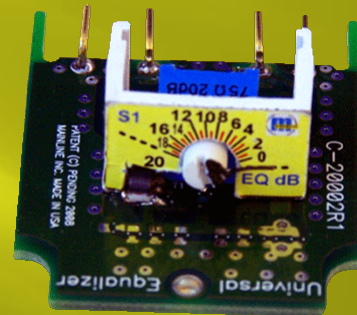
Reverse in 2ND QTR 2010

- ▣ Arris/C-cor Style SEQ Equalizers & PEQ Compensators

Insertion Loss: 1 dB (at 1003 MHz)

Pass band Flatness: +/-0.75 dB cable equivalent

Return Loss I/O: 16/16 dB



VARI-E-QTM



Patented
Compensators and
Equalizers

Available now
Reverse in 2nd Qtr. 2015



▣ Cisco/S.A. Equalizers and Compensators.

Insertion Loss: 1 dB (at 1003 MHz)

Passband Flatness: +/-0.75 dB cable equivalent

Return Loss I/O: 16/16 dB

MAINLINE

Drop-In Solutions



MAGNAMAX™

SASMAX™

GIZMOMAX™

NAVIMAX™

450
MHz

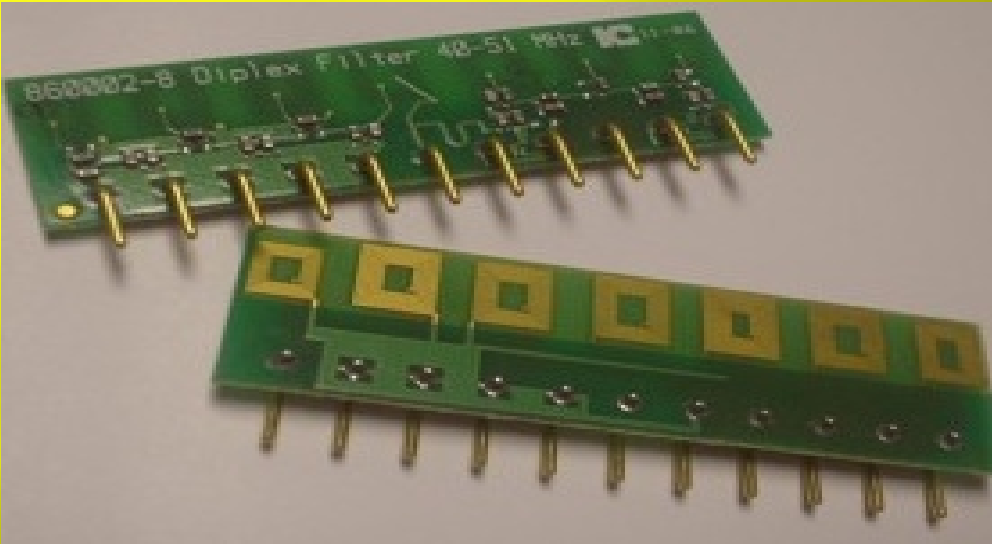
550
MHz

750
MHz

870
MHz

1
GHz

HEART OF OUR SYSTEM



Lowered parts count
Embedded coils replace air wounds

- Hybrids
- Duplex filters
“Plug-n-play”
- AGC-Analog/Qam
- O.E.M. style Plug-Ins
- Low cost



- 
- A blue stylized number '1' with a yellow horizontal bar across its center containing the text 'GHz' in black.

GHz



GHz

MAGNAMAX™

MAINLINE

Drop-In Solutions



1 GHz!

Direct Replacement for your 550 thru 870 MHz Magnavox, C-Cor
GNA/TNA/G3 Amplifiers and 6LE-Series Line Extenders



MAGNAMAX™

750
MHz

870
MHz

1
GHz

MAGNAMAX™



“G”-SERIES Type III -Single Output

“G”-SERIES Type II - 2,3,4, port System Amplifier



Plug n Play duplex filters

Very Low noise figure

Very Low CTB/XMOD/CSO Distortions

Operational Gain with ALSC up to 39.5/44.5 db

Manual mode 44.5/49.5 db

Built-in reverse amp

AGC Standard or QAM,

All EQ's and

Attenuators are compatible

1
GHz

MAGNAMAX™



Replacement For 6LE 94,95,96,97,98

1 GHz hi-gain 40+ dB

Pad adjustable slope and gain
GaAsFet P.D.

Surge protection input and output
Lower noise figure

Lower CTB/XMOD/CSO distortions

More slope and gain range (pad
controlled) Thermal also!

Low power consumption

Built in Reverse

Plug n Play Diplex filters same
through out series

Same plug-ins (if spectrum)

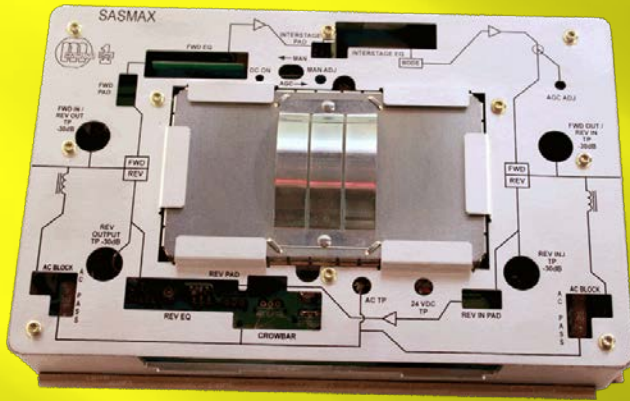


“G” Series
Compatible with 4-LH,
5-LH, 7-LH, 9-LH



SASMAX™ System I

Slim-line/Compatibility



Plug n play diplex filter



750-870 MHz one piece design

- Includes reverse AGC Plug-In
- RF interconnects that were problematic now gone.
- Uses common accessories.
- Higher output levels with improved distortions utilizing GaAsFet technology.

750 MHz

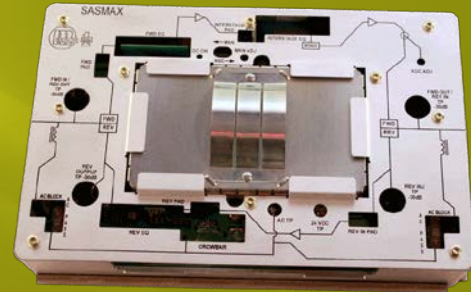
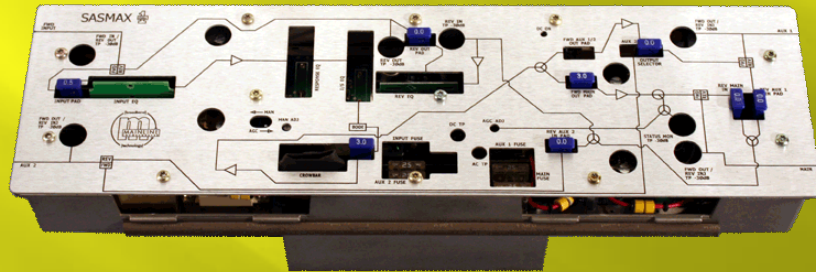
870 MHz

MAINLINE

Drop-In Solutions



750 MHz, 870 MHz and 1 GHz NOW!
One Piece Direct replacement for your S.A System II/III Amplifiers
and L.E.'s



SASMAX™

750
MHz

870
MHz

1
GHz

SASMAX™



All configurations available.

Plug n Play Diplex Filters

Built in Return Amplifier

Independent Forward and
Reverse Test Points

Independent Return Input Pads
for all ports

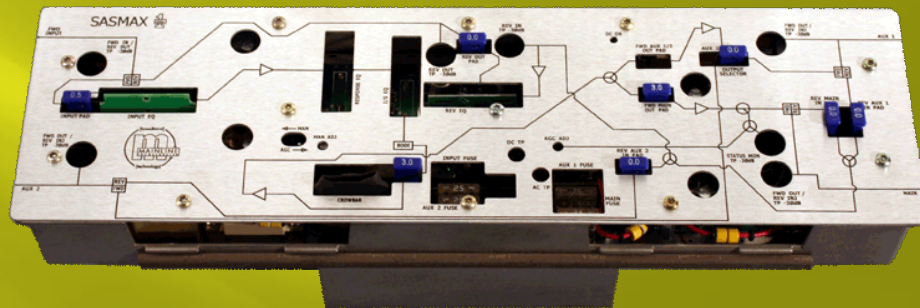
10 amp and 15 amp versions available

Very Low CTB/XMOD/CSO Distortions

Very Low Noise Figures

GaAsFet Power Doubled

Plug in Universal AGC



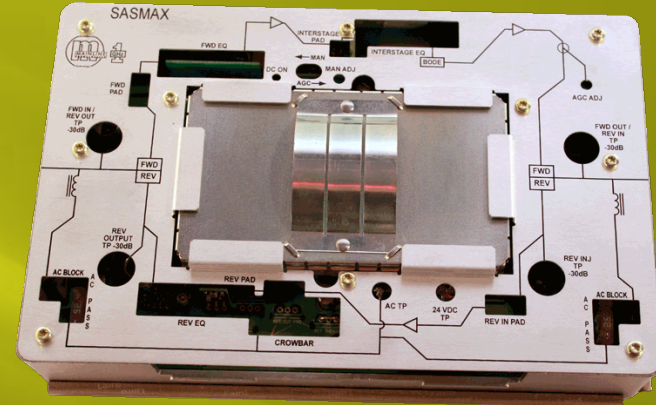
System Amp II & III



SASMAX™



Replacement For LE II & LE III
1 GHz hi-gain 40 dB
GaAsFet Power Doubler
Surge protection input and output
Lower noise figure
Lower CTB/XMOD/CSO distortions
Low power consumption
Built in Reverse
Plug n Play Diplex filters same
through out series
Common accessories



1
GHz

MAINLINE

Drop-In Solutions



Fiber Optic 1 GHz NOW!
One Piece Direct replacement for your S.A
System II/III Forward and Reverse Transmitter
and RF module



SASMAX™

750
MHz

870
MHz

1
GHz

SASMAX™

Optical Module



- Pass Band: 54-1002 MHz
- Frequency Response: ± 0.5 dB
- Optical Input Range: 0.5 to 1.6 mW
- Optical Input @ -3 dBm = 21.5 dBmV RF Output Level
- Optical Input @ +2 dBm = 31.5 dBmV RF Output Level
- **Optical Monitor and Alert**
- Optical Input Test Point ($\pm 10\%$): 1 VDC/mW
- LED = Off (indicates no Optical Input) LED = Blue (low): -3 dBm and lower LED = Green (good): -3 dBm to +2 dBm LED = Red (high): +2 dBm and higher
- **Link Performance @ -3 dBm** (Notes 1,2) Carrier/Noise: 49 dB CTB: -69 dB CSO: -65 dBc
- **Link Performance @ +2 dBm** (Notes 1,3) CNR: 52 dB CTB: -71 dBc CSO: -63 dB



1
GHz

MAINLINE

Drop-In Solutions

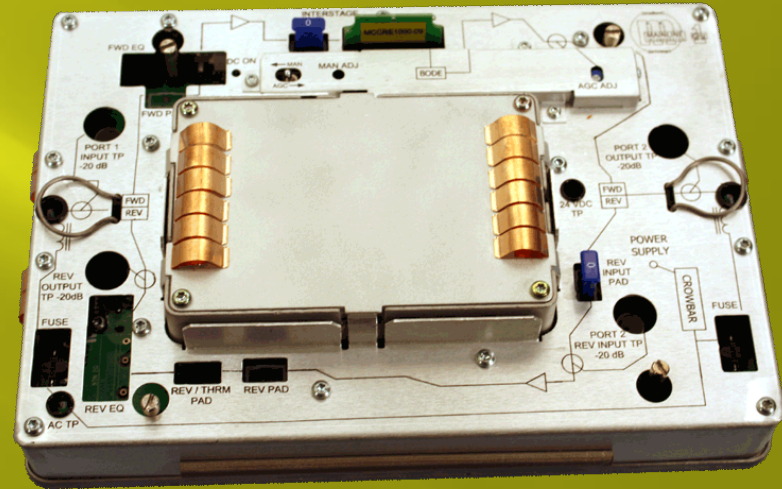


SA DFB Transmitter Reverse

SASMAX™



Common accessories



NAVIMAX™



Replacement For Navicor
750 and 870 MHz FNT/FNB

Plug-in Agc

1 GHz hi-gain

GaAsFet Power Doubler

Surge protection input and output

Lower noise figure

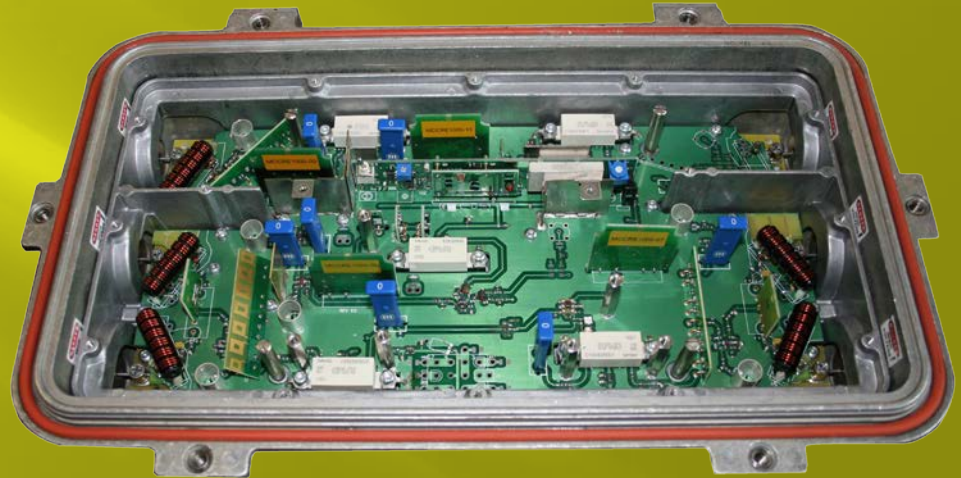
Lower CTB/XMOD/CSO distortions

Low power consumption

Built in Reverse

Plug n Play Diplex filters same through
out series

Common accessories



1
GHz



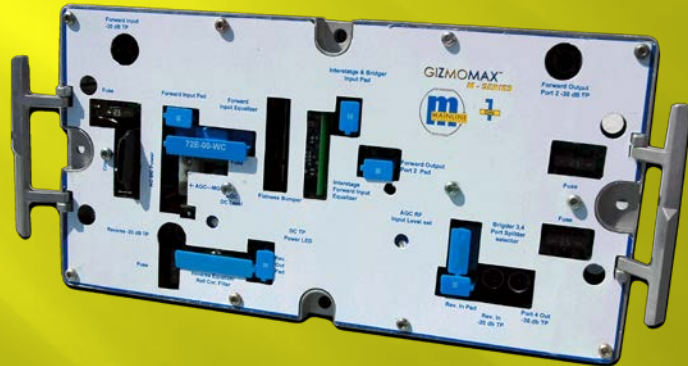
MAINLINE

Drop-In Solutions



750 MHz, 870 MHz and 1 GHz NOW!

One Piece Direct replacement for your G.I./Motorola Amplifiers and L.E.'s



GIZMOMAX™

750

MHz

870

MHz

1

GHz

GIZMOMAX™



1 GHz Line Extender

Replacement For BLE 75 & 87

1 GHz hi-gain 40 dB

GaAsFet Power Doubler

Surge protection input and output

Lower noise figure

Lower CTB/XMOD/CSO distortions

Low power consumption

Built in Reverse

Plug n Play Diplex filters same through out series

Common accessories

No lid upgrade required



1
GHz

GIZMOMAX™



1 GHz Mini-Bridger

2,3,4, port System Amplifier

Plug n Play Diplex Filters

Very Low noise figure

Lower CTB/XMOD/CSO Distortions

Operational Gain with ALSC 44.5 db

Built-in reverse amp

Common accessories and reuse
your existing Attenuators



GIZMOMAX™



1
GHz