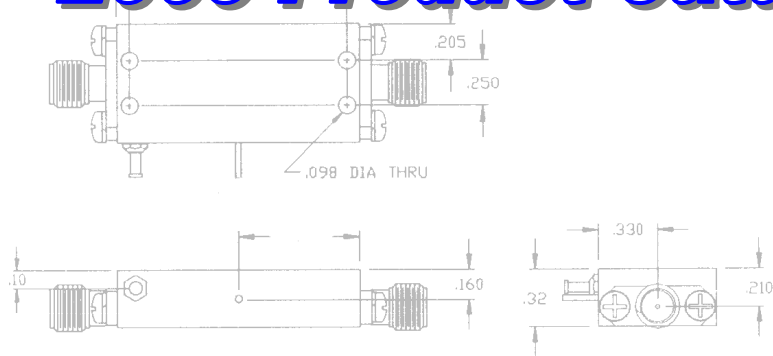
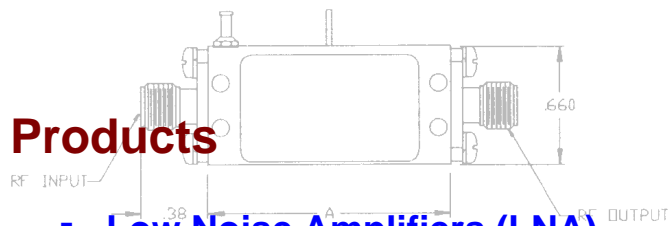


STS Microwave

2005 Product Catalog



Products



- **Low Noise Amplifiers (LNA)**
- **Power Amplifiers (PA)**
- **Limiting & Isolation Amplifiers (LA & IA)**
- **Detector Log Video Amplifiers (DLVA)**
- **Successive Detector Log Video Amplifiers (SDLVA)**
- **Subassemblies & Subsystems**

Introduction

STS Microwave was founded in the heart of Silicon Valley in 2003. Located in San Jose California, We design, manufacture and market Microwave Amplifier products. With State of Art technology, We ensures our product quality, performance, reliability, as well as on time delivery. Backed by a team of highly qualified personnel, We provide our customers with the products, which meet both the commercial and industrial requirements.

Engineering Staff

STS Microwave's engineering staff is found on proven expertise in the Microwave field. Our key engineering management combines over 40 years of experience in the design and manufacturing of Microwave and RF components.

Product Lines

STS Microwave designs and manufactures the following products:

- Low Noise Amplifiers
- Power Amplifiers
- Limiting & Isolation Amplifiers
- Detector Log Video Amplifiers (DLVA)
- Successive DLVA (SDLVA)

We offer products with quality, performance, reliability and competitive pricing.

Quality Assurance

STS Microwave's QA management reports directly to the company president. QA department performs audit at every step of the product design and manufacturing based upon the industrial standard procedures.

Customer Service

STS Microwave strikes to earn its reputation through product quality, reliability and performance. We will go extra miles to satisfy our customers' product requirements, as well as providing them the best customer services. So, Call us today to discuss how we may help you with your product requirements, custom application and best pricing.

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Note:

1. Drawings not shown are available upon request.
2. Customized Products can be arranged.

Product Category

STS D10000 Series 0.5 ~ 18GHz Broad Band Detector Log Video Amplifiers (DLVA) – DC Coupled

Features:

- Superior Log Linearity
- Wide Bandwidth
- Low Current Consumption

STS- D10000 Series						DC Power Consumption (No RF Signal)		Case Option SKC-
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	VSWR (@-23dBm) Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25°C								
STS-DD10520N	0.5 – 2.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
STS-DD12040N	2.0 – 4.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
STS-DD12080N	2.0 – 8.0	-43	-40 to +5	0.5	2.5:1	65	65	D1A, D1B
STS-DD14080N	4.0 – 8.0	-43	-40 to +5	0.5	2.5:1	65	65	D1A, D1B
STS-DD10518N	0.5 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
STS-DD12018N	2.0 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
STS-DD16012N	6.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
STS-DD18012N	8.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
STS-DD16018N	6.0 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
STS-DD18018N	8.0 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
STS-DD11218N	12.0 – 18.0	-42	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
-54°C to +85°C								
STS-DD10520T	0.5 – 2.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
STS-DD12040T	2.0 – 4.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
STS-DD12080T	2.0 – 8.0	-43	-40 to +5	0.6	2.5:1	65	65	D1A, D1B
STS-DD14080T	4.0 – 8.0	-43	-40 to +5	0.5	2.5:1	65	65	D1A, D1B
STS-DD10518T	0.5 – 18.0	-42	-40 to +5	0.7	3.5:1	65	65	D1A, D1B
STS-DD12018T	2.0 – 18.0	-42	-40 to +5	0.7	3.5:1	65	65	D1A, D1B
STS-DD16012T	6.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
STS-DD18012T	8.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
STS-DD16018T	6.0 – 18.0	-42	-40 to +5	0.6	3.5:1	65	65	D1A, D1B
STS-DD18018T	8.0 – 18.0	-42	-40 to +5	0.6	3.5:1	65	65	D1A, D1B
STS-DD11218T	12.0 – 18.0	-42	-40 to +5	0.5	3.0:1	65	65	D1A, D1B

General Specifications:

- Rise Time: 23ns (20ns Typ.)
- Recovery Time: 500ns (@+5dBm)
- Propagation Delay Time: < 30ns
- Logging Slope: 50mV/dB Nominal
- CW Input (No Damage): +17dBm

STS D20000 Series 0.5 ~ 18GHz Broad Band Detector Log Video Amplifiers (DLVA) – DC Coupled

Features:

- Superior Log Linearity
- Wide Bandwidth
- Low Current Consumption

STS- D20000 Series (Medium Range)						DC Power Consumption (No RF Signal)		Case Option SKC-
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	VSWR (@-23dBm) Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25°C								
STS-DD20560N	0.5 – 0.6	-42	-40 to +20	1.0	2.5:1	100	100	D2
STS-DD22040N	2.0 – 4.0	-42	-40 to +20	1.0	2.5:1	100	100	D2
STS-DD22080N	2.0 – 8.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
STS-DD24080N	4.0 – 8.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
STS-DD26012N	6.0 – 12.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
STS-DD22018N	2.0 – 18.0	-42	-40 to +20	1.2	2.5:1	200	100	D2
STS-DD26018N	6.0 – 18.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
STS-DD28018N	8.0 – 18.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
STS-DD21218N	12.0 – 18.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
-54°C to +85°C								
STS-DD20560T	0.5 – 6.0	-42	-40 to +20	1.2	2.5:1	100	100	D2
STS-DD22040T	2.0 – 4.0	-42	-40 to +20	1.0	2.5:1	100	100	D2
STS-DD22080T	2.0 – 8.0	-42	-40 to +20	1.1	2.5:1	130	100	D2
STS-DD24080T	4.0 – 8.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
STS-DD26012T	6.0 – 12.0	-42	-40 to +20	1.1	2.5:1	130	100	D2
STS-DD22018T	2.0 – 18.0	-42	-40 to +20	1.5	2.5:1	200	100	D2
STS-DD26018T	6.0 – 18.0	-42	-40 to +20	1.2	2.5:1	130	100	D2
STS-DD28018T	8.0 – 18.0	-42	-40 to +20	1.1	2.5:1	130	100	D2
STS-DD21218T	12.0 – 18.0	-42	-40 to +20	1.1	2.5:1	130	100	D2

General Specifications:

- Rise Time: 23ns (20ns Typ.)
- Propagation Delay Time: < 30ns
- Logging Slope: 50mV/dB Nominal
- CW Input (No Damage): +20dBm
- Recovery Time: 500ns for PW ≤ 1μs
1μs for PW > 1μs (@+15dBm)

STS D30000 Series 0.5 ~ 18GHz Broad Band Detector Log Video Amplifiers (DLVA) – DC Coupled

Features:

- **Superior Log Linearity**
- **Wide Bandwidth**
- **Low Current Consumption**

STS- D30000 Series (Extended Range)						DC Power Consumption (No RF Signal)		Case Option SKC-
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	VSWR Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25°C								
STS-DD30520N	0.5 – 2.0	-75	-72 to +5	1.0	2.0:1	260	150	D3A, D3E
STS-DD32060N	2.0 – 6.0	-75	-72 to +5	1.0	2.0:1	260	150	D3B, D3F
STS-DD34080N	4.0 – 8.0	-74	-72 to +5	1.1	2.0:1	280	150	D3B, D3F
STS-DD32018N	2.0 – 18.0	-68	-65 to +5	1.2	2.5:1	400	150	D3C, D3G
STS-DD36012N	6.0 – 12.0	-73	-70 to +5	1.0	2.0:1	300	150	D3C, D3G
STS-DD36018N	6.0 – 18.0	-72	-70 to +5	1.1	2.3:1	300	150	D3C, D3G
STS-DD38018N	8.0 – 18.0	-72	-70 to +5	1.0	2.2:1	300	150	D3C, D3G
STS-DD31218N	12.0 – 18.0	-72	-70 to +5	1.0	2.2:1	300	150	D3C, D3G
-54°C to +85°C								
STS-DD30520T	0.5 – 2.0	-75	-72 to +5	1.2	2.0:1	260	150	D3A, D3E
STS-DD32060T	2.0 – 6.0	-75	-72 to +5	1.2	2.0:1	260	150	D3B, D3F
STS-DD34080T	4.0 – 8.0	-74	-72 to +5	1.2	2.0:1	280	150	D3B, D3F
STS-DD32018T	2.0 – 18.0	-67	-65 to +5	1.5	2.5:1	400	150	D3C, D3G
STS-DD36012T	6.0 – 12.0	-73	-70 to +5	1.2	2.0:1	300	150	D3C, D3G
STS-DD36018T	6.0 – 18.0	-72	-70 to +5	1.3	2.3:1	300	150	D3C, D3G
STS-DD38018T	8.0 – 18.0	-72	-70 to +5	1.2	2.2:1	300	150	D3C, D3G
STS-DD31218T	12.0 – 18.0	-72	-70 to +5	1.2	2.2:1	300	150	D3C, D3G

General Specifications:

- Rise Time: 23ns (20ns Typ.)
- Propagation Delay Time: < 30ns
- Logging Slope: 50mV/dB Nominal
- CW Input (No Damage): +20dBm
- Recovery Time: 500ns for PW ≤ 1μs
1μs for PW > 1μs (@+5dBm)

STS A10000 Series 0.5 ~ 18GHz Broad Band Detector Log Video Amplifiers (DLVA) – CW Immunity

Features:

- **CW Immunity**
- **High Duty Cycle Up to 70%**
- **Short warm-up Time**

STS- A10000 Series						DC Power Consumption (No RF Signal)		Case Option SKC-
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	VSWR (@-23dBm) Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25°C								
STS-DA10520N	0.5 – 2.0	-46	-43 to 0	0.5	2.5:1	100	100	A1
STS-DA12040N	2.0 – 4.0	-46	-43 to 0	0.5	2.5:1	100	100	A1
STS-DA12060N	2.0 – 6.0	-45	-43 to 0	0.5	2.5:1	100	100	A1
STS-DA14080N	4.0 – 8.0	-45	-43 to 0	0.5	2.5:1	100	100	A1
STS-DA16012N	6.0 – 12.0	-44	-42 to 0	0.5	3.0:1	100	100	A1
STS-DA18012N	8.0 – 12.0	-44	-42 to 0	0.5	3.0:1	100	100	A1
STS-DA12018N	2.0 – 18.0	-43	-41 to 0	0.5	4.0:1	100	100	A1
STS-DA16018N	6.0 – 18.0	-44	-42 to 0	0.5	3.5:1	100	100	A1
STS-DA18018N	8.0 – 18.0	-44	-42 to 0	0.5	3.5:1	100	100	A1
STS-DA11218N	12.0 – 18.0	-44	-42 to 0	0.5	3.0:1	100	100	A1
-54°C to +85°C								
STS-DA10520T	0.5 – 2.0	-45	-42 to 0	0.5	2.5:1	100	100	A1
STS-DA12040T	2.0 – 4.0	-45	-42 to 0	0.5	2.5:1	100	100	A1
STS-DA12060T	2.0 – 6.0	-44	-42 to 0	0.6	2.5:1	100	100	A1
STS-DA14080T	4.0 – 8.0	-44	-42 to 0	0.6	2.5:1	100	100	A1
STS-DA16012T	6.0 – 12.0	-43	-41 to 0	0.6	3.0:1	100	100	A1
STS-DA18012T	8.0 – 12.0	-43	-41 to 0	0.5	3.0:1	100	100	A1
STS-DA12018T	2.0 – 18.0	-42	-40 to 0	0.7	4.0:1	100	100	A1
STS-DA16018T	6.0 – 18.0	-43	-41 to 0	0.6	3.5:1	100	100	A1
STS-DA18018T	8.0 – 18.0	-43	-41 to 0	0.6	3.5:1	100	100	A1
STS-DA11218T	12.0 – 18.0	-43	-41 to 0	0.5	3.0:1	100	100	A1

General Specifications:

- Rise Time: 35ns
- Propagation Delay Time: < 30ns
- Logging Slope: 75mV/dB Nominal
- CW Immunity: No Degradation Up to TSS –20dBm
- Recovery Time: 500ns

STS A20000 Series 0.5 ~ 18GHz Broad Band Detector Log Video Amplifiers (DLVA) – CW Immunity

Features:

- CW Immunity
- High Duty Cycle Up to 70%
- Short warm-up Time

STS- A20000 Series (Extended Range)						DC Power Consumption (No RF Signal)		Case Option SKC-
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	VSWR Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25°C								
STS-DA20520N	0.5 – 2.0	-68	-65 to +5	1.0	2.0:1	230	150	A2A
STS-DA22060N	2.0 – 6.0	-68	-65 to +5	1.0	2.0:1	250	150	A2A
STS-DA24080N	4.0 – 8.0	-68	-65 to +5	1.0	2.0:1	250	150	A2B
STS-DA28012N	8.0 – 12.0	-67	-65 to +5	1.0	2.0:1	270	150	A2C
STS-DA22018N	2.0 – 18.0	-67	-65 to +5	1.2	2.5:1	400	160	A2C
STS-DA26018N	6.0 – 18.0	-67	-65 to +5	1.1	2.3:1	270	150	A2C
STS-DA28018N	8.0 – 18.0	-67	-65 to +5	1.0	2.2:1	270	150	A2C
STS-DA21218N	12.0 – 18.0	-67	-65 to +5	1.0	2.2:1	270	150	A2C
-54°C to +85°C								
STS-DA20520T	0.5 – 2.0	-68	-65 to +5	1.2	2.0:1	230	150	A2A
STS-DA22060T	2.0 – 6.0	-68	-65 to +5	1.2	2.0:1	250	150	A2A
STS-DA24080T	4.0 – 8.0	-68	-65 to +5	1.2	2.0:1	250	150	A2B
STS-DA28012T	8.0 – 12.0	-67	-65 to +5	1.2	2.0:1	270	150	A2C
STS-DA22018T	2.0 – 18.0	-67	-65 to +5	1.5	2.5:1	400	160	A2C
STS-DA26018T	6.0 – 18.0	-67	-65 to +5	1.3	2.3:1	270	150	A2C
STS-DA28018T	8.0 – 18.0	-67	-65 to +5	1.2	2.2:1	270	150	A2C
STS-DA21218T	12.0 – 18.0	-67	-65 to +5	1.2	2.2:1	270	150	A2C

General Specifications:

- Rise Time: 25ns
- Propagation Delay Time: < 35ns
- Logging Slope: 50mV/dB Nominal
- CW Immunity: No Degradation Up to TSS +20dBm
- Recovery Time: 500ns for PW ≤ 1μs
1μs for PW > 1μs (@+5dBm)

STS S10000 Series 0.5 ~ 18GHz Broad Band Successive Detector Log Video Amplifiers (SDLVA)

Features:

- **Fast Rise Time and Fall Time**
- **Short Delay Time**
- **Excellent Tangential Sensitivity**
- **Low Baseline Noise**

STS- S10000 Series		Video Output			RF Port			DC Power Consumption (No RF Signal)		Case Option
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	Freq. Flatness (± dB) Small Signal	VSWR I/O Max.	Psat (dBm) Typ.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	SKC-
+25°C										
STS-SS10520N	0.5 – 2.0	-50	-40 to +5	1.5	1.5	2.0:1/2.0:1	+5	60	30	S1A
STS-SS12040N	2.0 – 4.0	-50	-40 to +5	1.5	1.5	2.0:1/2.0:1	+5	60	30	S1A
STS-SS12060N	2.0 – 6.0	-48	-40 to +5	1.5	1.5	2.2:1/2.2:1	+5	60	30	S1A
STS-SS14080N	4.0 – 8.0	-48	-40 to +5	1.5	1.5	2.2:1/2.2:1	+7	80	30	S1B
STS-SS18012N	8.0 – 12.0	-46	-38 to +8	1.5	1.5	2.2:1/2.2:1	+7	80	30	S1C
STS-SS12018N	2.0 – 18.0	-44	-36 to +9	2.0	3.5	2.5:1/2.5:1	+6	300	40	S1C
STS-SS16018N	6.0 – 18.0	-45	-37 to +8	1.5	2.5	2.3:1/2.3:1	+7	120	30	S1C
STS-SS11218N	12.0 – 18.0	-45	-37 to +8	1.5	2.0	2.3:1/2.3:1	+7	120	30	S1C
-25°C to +75°C										
STS-SS10520T	0.5 – 2.0	-50	-40 to +5	2.0	2	2.0:1/2.0:1	+5	60	30	S1A
STS-SS12040T	2.0 – 4.0	-50	-40 to +5	2.0	2	2.0:1/2.0:1	+5	60	30	S1A
STS-SS12060T	2.0 – 6.0	-48	-40 to +5	2.0	2	2.2:1/2.2:1	+5	60	30	S1A
STS-SS14080T	4.0 – 8.0	-48	-40 to +5	2.0	2	2.2:1/2.2:1	+7	80	30	S1B
STS-SS18012T	8.0 – 12.0	-46	-38 to +8	2.0	2	2.2:1/2.2:1	+7	80	30	S1C
STS-SS12018T	2.0 – 18.0	-44	-36 to +9	2.5	3.5	2.5:1/2.5:1	+6	300	40	S1C
STS-SS16018T	6.0 – 18.0	-45	-37 to +8	2.0	2	2.3:1/2.3:1	+7	120	30	S1C
STS-SS12218T	12.0 – 18.0	-45	-37 to +8	2.0	2.5	2.3:1/2.3:1	+7	120	30	S1C

General Specifications:

- Rise Time: 10ns (5ns Typ.)
- Recovery Time: 40ns (25ns Typ.)
- Propagation Delay Time: 10ns (5ns Typ.)
- Logging Slope: 25mV/dB Nominal
- Variation of Delay Time Over Input Power: 61ns
- Pulse Range: 30ns to CW
- Video Load: 50 Ω or 100 Ω

STS S20000 Series 0.5 ~ 18GHz Broad Band Successive Detector Log Video Amplifiers (SDLVA)

Features:

- **Fast Rise Time and Fall Time**
- **Short Delay Time**
- **Excellent Tangential Sensitivity**
- **Low Baseline Noise**

STS- S20000 Series (Extended Range)		Video Output			RF Port			DC Power Consumption (No RF Signal)		Case Option
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	Freq. Flatness (± dB) Small Signal	VSWR I/O Max.	Psat (dBm) Typ.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	SKC-
+25°C										
STS-SS20520N	0.5 – 2.0	-75	-67 to +3	2.0	2.0	2.0:1/2.0:1	+5	100	30	S2A
STS-SS22040N	2.0 – 4.0	-75	-67 to +3	2.0	2.0	2.0:1/2.0:1	+5	100	30	S2A
STS-SS22060N	2.0 – 6.0	-73	-65 to -5	2.0	2.0	2.2:1/2.2:1	+5	120	30	S2B
STS-SS24080N	4.0 – 8.0	-70	-63 to -3	2.0	2.0	2.2:1/2.2:1	+7	150	30	S2C
STS-SS28012N	8.0 – 12.0	-69	-62 to -2	2.0	2.0	2.2:1/2.2:1	+7	150	30	S2C
STS-SS22018N	2.0 – 18.0	-65	-60 to 0	3.0	5.0	2.5:1/2.5:1	+6	500	40	S2D
STS-SS26018N	6.0 – 18.0	-67	-60 to 0	2.0	3.0	2.3:1/2.3:1	+7	200	30	S2D
STS-SS21218N	12.0 – 18.0	-67	-60 to 0	2.0	2.5	2.3:1/2.3:1	+7	200	30	S2D
-25°C to +75°C										
STS-SS20520T	0.5 – 2.0	-74	-67 to +3	2.5	2.5	2.0:1/2.0:1	+5	100	30	S2A
STS-SS22040T	2.0 – 4.0	-74	-67 to +3	2.5	2.5	2.0:1/2.0:1	+5	100	30	S2A
STS-SS22060T	2.0 – 6.0	-72	-65 to -5	2.5	2.5	2.2:1/2.2:1	+5	120	30	S2B
STS-SS24080T	4.0 – 8.0	-70	-63 to -3	2.5	2.5	2.2:1/2.2:1	+7	150	30	S2C
STS-SS28012T	8.0 – 12.0	-69	-62 to -2	2.5	2.5	2.2:1/2.2:1	+7	150	30	S2C
STS-SS22018T	2.0 – 18.0	-65	-60 to 0	4.0	5.5	2.5:1/2.5:1	+6	500	40	S2D
STS-SS26018T	6.0 – 18.0	-67	-60 to 0	2.2	3.5	2.3:1/2.3:1	+7	200	30	S2D
STS-SS21218T	12.0 – 18.0	-67	-60 to 0	2.5	3.0	2.3:1/2.3:1	+7	200	30	S2D

General Specifications:

- Rise Time: 10ns (5ns Typ.)
- Recovery Time: 40ns (25ns Typ.)
- Propagation Delay Time: 10ns (5ns Typ.)
- Logging Slope: 15mV/dB Nominal
- Variation of Delay Time Over Input Power: 61ns
- Pulse Range: 30ns to CW
- Video Load: 50 Ω or 100 Ω

STS PS20000 Series 0.5 ~ 18GHz Broad Band Pseudo Successive Detector Log Video Amplifiers (PSDLVA)

Features:

- **Fast Pulse Response**
- **Excellent Tangential Sensitivity**
- **Good Log Linearity**
- **Stable Output Offset Voltage**

STS- 20000 Series		Video Output			RF Port			DC Power Consumption (No RF Signal)		Case Option
STS Model #	Freq. Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (± dB) Any Freq.	Freq. Flatness (± dB) Small Signal	VSWR I/O Max.	Psat (dBm) Typ.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	SKC-
+25°C										
STS-PS20520N	0.5 – 2.0	-74	-70 to 0	1.5	2.0	2.0:1/2.0:1	+5	200	180	PS1,PSA/B
STS-PS20560N	0.5 – 6.0	-73	-70 to 0	2.0	3.0	2.2:1/2.2:1	+5	200	180	PS1,PSA/B
STS-PS22060N	2.0 – 6.0	-73	-70 to 0	1.5	2.0	2.2:1/2.2:1	+5	200	180	PS1,PSA/B
STS-PS22080N	2.0 – 8.0	-72	-70 to 0	2.0	2.5	2.2:1/2.2:1	+5	220	180	PS2,PSA/B
STS-PS28018N	8.0 – 18.0	-71	-68 to +2	1.5	2.0	2.2:1/2.2:1	+7	250	180	PS3,PSA/B
STS-PS26018N	6.0 – 18.0	-71	-68 to +2	2.0	2.5	2.2:1/2.2:1	+7	250	180	PS3,PSA/B
STS-PS22018N	2.0 – 18.0	-67	-65 to +5	2.5	4.0	2.5:1/2.5:1	+5	300	200	PS3,PSA/B
-25°C to +75°C										
STS-PS20520T	0.5 – 2.0	-74	-70 to 0	2.0	2.5	2.0:1/2.0:1	+5	200	180	PS1,PSA/B
STS-PS20560T	0.5 – 6.0	-73	-70 to 0	2.5	3.5	2.2:1/2.2:1	+5	200	180	PS1,PSA/B
STS-PS22060T	2.0 – 6.0	-73	-70 to 0	2.0	2.5	2.2:1/2.2:1	+5	200	180	PS1,PSA/B
STS-PS22080T	2.0 – 8.0	-72	-70 to 0	2.5	3.0	2.2:1/2.2:1	+5	220	180	PS2,PSA/B
STS-PS28018T	8.0 – 18.0	-71	-68 to +2	2.0	2.5	2.2:1/2.2:1	+7	250	180	PS3,PSA/B
STS-PS26018T	6.0 – 18.0	-71	-68 to +2	2.5	3.0	2.2:1/2.2:1	+7	250	180	PS3,PSA/B
STS-PS22018T	2.0 – 18.0	-67	-65 to +5	3.0	4.5	2.5:1/2.5:1	+5	300	200	PS3,PSA/B

General Specifications:

- Rise Time: 15ns (10ns Typ.)
- Recovery Time: 100ns (60ns Typ.)
- Propagation Delay Time: 15ns Max. (10ns Typ.)
- Logging Slope: 25mV/dB Nominal
- Variation of Delay Time Over Input Power: 63ns
- Pulse Range: 30ns to CW
- Video Load: 50 Ω or 100 Ω

STS 1.0 ~ 21.2GHz Narrow Band Low Noise Amplifiers (LNA)

Features:

- **Noise Figure As Low As 1.5dB**
- **Compact and Rugged Thin-Film Construction**
- **Competitive Price**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @12Vdc* (mA) Typ.	Case Option SKC-
+258C									
STS-LN1214N2010	1.2 – 1.4	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN1214N3015	1.2 – 1.4	30	1.5	15	0.6	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN1214N4020	1.2 – 1.4	40	1.5	20	0.7	30	2.0:1/2.0:1	300	GP4,SP3
STS-LN2224N2010	2.2 – 2.4	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN2224N3015	2.2 – 2.4	30	1.5	15	0.6	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN2224N4020	2.2 – 2.4	40	1.5	20	0.7	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN2731N2010	2.7 – 3.1	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN2731N3015	2.7 – 3.1	30	1.5	15	0.6	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN2731N4020	2.7 – 3.1	40	1.5	20	0.7	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN3742N2010	3.7 – 4.2	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN3742N3015	3.7 – 4.2	30	1.5	15	0.6	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN3742N4020	3.7 – 4.2	40	1.5	20	0.7	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN5459N2010	5.4 – 5.9	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN5459N3015	5.4 – 5.9	30	1.5	15	0.6	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN5459N4020	5.4 – 5.9	40	1.5	20	0.7	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN5964N2010	5.9 – 6.4	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN5964N3015	5.9 – 6.4	30	1.5	15	0.6	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN5964N4020	5.9 – 6.4	40	1.5	20	0.7	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN7278N2010	7.2 – 7.8	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN7278N3015	7.2 – 7.8	30	1.5	15	0.6	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN7278N4020	7.2 – 7.8	40	1.5	20	0.7	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN7984N2010	7.9 – 8.4	20	1.5	10	0.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN7984N3015	7.9 – 8.4	30	1.5	15	0.6	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN7984N4020	7.9 – 8.4	40	1.5	20	0.7	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN8596N2010	8.5 – 9.6	20	1.6	10	0.5	20	2.0:1/2.0:1	200	GP2,SP1
STS-LN8596N3015	8.5 – 9.6	30	1.6	15	0.6	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN8596N4020	8.5 – 9.6	40	1.6	20	0.7	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN9510N2010	9.5 – 10.5	20	1.6	10	0.5	20	2.0:1/2.0:1	200	GP2,SP2
STS-LN9510N3015	9.5 – 10.5	30	1.6	15	0.6	25	2.0:1/2.0:1	250	GP4,SP4
STS-LN9510N4020	9.5 – 10.5	40	1.6	20	0.7	30	2.0:1/2.0:1	350	GP6,SP5
STS-LN1112N2010	11.7 – 12.2	20	1.7	10	0.6	20	2.0:1/2.0:1	200	GP2,SP2
STS-LN1112N3015	11.7 – 12.2	30	1.7	15	0.7	25	2.0:1/2.0:1	250	GP4,SP4
STS-LN1112N4020	11.7 – 12.2	40	1.7	20	0.8	30	2.0:1/2.0:1	300	GP6,SP5

STS 1.0 ~ 21.2GHz Narrow Band Low Noise Amplifiers (LNA)

(Continue...)

Features:

- **Noise Figure As Low As 1.5dB**
- **Compact and Rugged Thin-Film Construction**
- **Competitive Price**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @12Vdc (mA) Typ.	Case Option SKC-
+258C									
STS-LN1414N2010	14.0 – 14.5	20	2.0	10	0.6	20	2.0:1/2.0:1	200	GP2,SP2
STS-LN1414N3015	14.0 – 14.5	30	2.0	15	0.8	25	2.0:1/2.0:1	250	GP4,SP4
STS-LN1414N4020	14.0 – 14.5	40	2.0	20	0.9	30	2.0:1/2.0:1	300	GP6,SP5
STS-LN2021N2010	20.0 – 21.2	20	3.5	10	0.6	20	2.0:1/2.0:1	250	GP4,SP3
STS-LN2021N3015	20.0 – 21.2	30	3.5	15	0.8	25	2.0:1/2.0:1	350	GP6,SP4
STS-LN2021N4020	20.0 – 21.2	40	3.5	20	1.0	30	2.0:1/2.0:1	450	GP6,SP5

Note: * +15Vdc or other DC voltage is available upon request.

STS 1.0 ~ 14.5GHz Narrow Band Power Amplifiers (PA)

Features:

- **Up to 20W Output Power**
- **Compact and Rugged Thin-Film Construction**
- **Competitive Price**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @15Vdc (mA) Typ.	Case Option SKC-
+258C									
STS-P1014N3537	1.0 – 1.4	35	7.0	37	1.0	44	2.0:1/2.0:1	3000	NP1
STS-P1014N4040	1.0 – 1.4	40	7.0	40	1.2	47	2.0:1/2.0:1	5000	NP2
STS-P1418N3537	1.4 – 1.8	35	7.0	37	1.0	44	2.0:1/2.0:1	3000	NP1
STS-P1418N4040	1.4 – 1.8	40	7.0	40	1.2	47	2.0:1/2.0:1	5000	NP2
STS-P1822N3537	1.8 – 2.2	35	7.0	37	1.0	44	2.0:1/2.0:1	3000	NP1
STS-P1822N4040	1.8 – 2.2	40	7.0	40	1.2	47	2.0:1/2.0:1	5000	NP2
STS-P2227N3537	2.2 – 2.7	35	7.0	37	1.2	44	2.0:1/2.0:1	3000	NP1
STS-P2227N4040	2.2 – 2.7	40	7.0	40	1.5	47	2.0:1/2.0:1	5000	NP2
STS-P3742N3536	3.7 – 4.2	35	7.0	36	1.0	43	1.5:1/1.5:1	3500	NP3
STS-P3742N4039	3.7 – 4.2	40	7.0	39	1.2	46	1.5:1/1.5:1	6000	NP3
STS-P3742N4542	3.7 – 4.2	45	7.0	42	1.5	49	1.5:1/1.5:1	9500	NP4
STS-P4450N3536	4.4 – 5.0	35	7.5	36	1.0	43	1.5:1/1.5:1	3500	NP3
STS-P4450N4039	4.4 – 5.0	40	7.5	39	1.2	46	1.5:1/1.5:1	6000	NP3
STS-P4450N4542	4.4 – 5.0	45	7.5	42	1.5	49	1.5:1/1.5:1	9500	NP4
STS-P5964N4036	5.9 – 6.4	40	8.0	36	1.2	43	1.5:1/1.5:1	3500	NP3
STS-P5964N4539	5.9 – 6.4	45	8.0	39	1.5	46	1.5:1/1.5:1	6500	NP3
STS-P5964N5042	5.9 – 6.4	50	8.0	42	1.0	49	1.5:1/1.5:1	10000	NP4
STS-P7177N3534	7.1 – 7.7	35	8.0	34	1.0	42	1.5:1/1.5:1	2500	NP5
STS-P7177N4037	7.1 – 7.7	40	8.0	37	1.2	44	1.5:1/1.5:1	4500	NP5
STS-P7177N4540	7.1 – 7.7	45	8.0	40	1.5	47	1.5:1/1.5:1	7000	NP6
STS-P7785N3534	7.7 – 8.5	35	8.5	34	1.0	42	1.5:1/1.5:1	2500	NP5
STS-P7785N4037	7.7 – 8.5	40	8.5	37	1.2	44	1.5:1/1.5:1	4500	NP5
STS-P7785N4540	7.7 – 8.5	45	8.5	40	1.5	47	1.5:1/1.5:1	7000	NP6
STS-P8595N3534	8.5 – 9.5	35	8.5	34	1.0	42	1.5:1/1.5:1	2500	NP5
STS-P8595N4037	8.5 – 9.5	40	8.5	37	1.2	44	1.5:1/1.5:1	4500	NP5
STS-P8595N4540	8.5 – 9.5	45	8.5	40	1.5	47	1.5:1/1.5:1	7000	NP6
STS-P95105N3533	9.5 – 10.5	35	9.0	33	1.0	41	1.5:1/1.5:1	2500	NP5
STS-P95105N4036	9.5 – 10.5	40	9.0	36	1.2	43	1.5:1/1.5:1	4500	NP5
STS-P95105N4539	9.5 – 10.5	45	9.0	39	1.5	46	1.5:1/1.5:1	7000	NP6
STS-P14145N3533	14.0 – 14.5	35	10.0	33	1.0	41	1.5:1/1.5:1	3000	NP7
STS-P14145N4036	14.0 – 14.5	40	10.0	36	1.2	43	1.5:1/1.5:1	5000	NP7
STS-P14145N4539	14.0 – 14.5	45	10.0	39	1.5	46	1.5:1/1.5:1	8500	NP8

STS 0.5 ~ 26.5GHz Broad Band Low Noise Amplifiers (LNA)

Features:

- Low Noise Figure, Wide Bandwidth
- Design To Meet MIL-STD-883

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @12Vdc* (mA) Typ.	Case Option SKC-
+258C									
STS-LN0520N2010	0.5 – 2.0	20	2.5	10	1.0	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN0520N3015	0.5 – 2.0	30	2.5	15	1.2	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN0520N4020	0.5 – 2.0	40	2.5	20	1.4	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN1020N2010	1.0 – 2.0	20	2.2	10	0.8	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN1020N3015	1.0 – 2.0	30	2.2	15	1.0	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN1020N4020	1.0 – 2.0	40	2.2	20	1.2	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN2040N2010	2.0 – 4.0	20	2.2	10	1.0	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN2040N3015	2.0 – 4.0	30	2.2	15	1.3	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN2040N4020	2.0 – 4.0	40	2.2	20	1.5	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN2060N2010	2.0 – 6.0	20	2.6	10	1.3	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN2060N3015	2.0 – 6.0	30	2.6	15	1.5	25	2.0:1/2.0:1	200	GP4,SP2
STS-LN2060N4020	2.0 – 6.0	40	2.6	20	1.8	30	2.0:1/2.0:1	300	GP6,SP4
STS-LN2080N2010	2.0 – 8.0	20	2.8	10	1.5	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN2080N3015	2.0 – 8.0	30	2.8	15	1.8	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN2080N4020	2.0 – 8.0	40	2.8	20	2.0	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN4080N2010	4.0 – 8.0	20	2.6	10	1.3	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN4080N3015	4.0 – 8.0	30	2.6	15	1.5	25	2.0:1/2.0:1	250	GP4,SP2
STS-LN4080N4020	4.0 – 8.0	40	2.6	20	1.8	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN6012N2010	6.0 – 12.0	20	2.8	10	1.2	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN6012N3015	6.0 – 12.0	30	2.8	15	1.4	25	2.0:1/2.0:1	250	GP4,SP3
STS-LN6012N4020	6.0 – 12.0	40	2.8	20	1.8	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN8012N2010	8.0 – 12.0	20	2.6	10	1.2	20	2.0:1/2.0:1	150	GP2,SP1
STS-LN8012N3015	8.0 – 12.0	30	2.6	15	1.4	25	2.0:1/2.0:1	250	GP4,SP3
STS-LN8012N4020	8.0 – 12.0	40	2.6	20	1.7	30	2.0:1/2.0:1	350	GP6,SP4
STS-LN1218N2010	12.0 – 18.0	20	3.0	10	1.2	20	2.0:1/2.0:1	180	GP4,SP2
STS-LN1218N3015	12.0 – 18.0	30	3.0	15	1.4	25	2.0:1/2.0:1	250	GP6,SP4
STS-LN1218N4020	12.0 – 18.0	40	3.0	20	1.7	30	2.0:1/2.0:1	350	GP8,SP6
STS-LN8018N2010	8.0 – 18.0	20	3.2	10	1.2	20	2.0:1/2.0:1	180	GP4,SP2
STS-LN8018N3015	8.0 – 18.0	30	3.2	15	1.5	25	2.0:1/2.0:1	280	GP6,SP4
STS-LN8018N4020	8.0 – 18.0	40	3.2	20	1.8	30	2.0:1/2.0:1	380	GP8,SP6
STS-LN6018N2010	6.0 – 18.0	20	3.5	10	1.5	20	2.0:1/2.0:1	180	GP4,SP2
STS-LN6018N3015	6.0 – 18.0	30	3.5	15	1.8	25	2.0:1/2.0:1	280	GP6,SP4

STS 0.5 ~ 26.5GHz Broad Band Low Noise Amplifiers (LNA)

(Continue...)

Features:

- **Low Noise Figure, Wide Bandwidth**
- **Design To Meet MIL-STD-883**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @12Vdc* (mA) Typ.	Case Option SKC-
+258C									
STS-LN6018N4020	6.0 – 18.0	40	3.5	20	2.0	30	2.0:1/2.0:1	380	GP8,SP6
STS-LN2018N2010	2.0 – 18.0	20	5.0	10	2.0	20	2.2:1/2.2:1	180	GP4,SP2
STS-LN2018N3015	2.0 – 18.0	30	5.0	15	2.2	24	2.2:1/2.2:1	300	GP6,SP4
STS-LN2018N4020	2.0 – 18.0	40	5.0	20	2.5	28	2.2:1/2.2:1	450	GP8,SP6
STS-LN1826N3010	18.0 – 26.5	30	5.0	10	2.0	20	2.2:1/2.2:1	300	GM1

Note: *+15Vdc or other DC voltage is available upon request.

STS 0.5 ~ 18GHz Broad Band Low Noise Amplifiers (LNA)

Features:

- **Low Noise Figure, Wide Bandwidth**
- **Operates From -548C to +858C**
- **Design To Meet MIL-STD-883**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min./Max.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @12Vdc* (mA) Typ.	Case Option SKC-
-548C to +858C									
STS-LN0520T2010	0.5 – 2.0	20/25	3.8	10	1.5	20	2:1/2:1	180	GP4,SP3
STS-LN0520T3015	0.5 – 2.0	30/35	3.8	15	1.8	25	2:1/2:1	250	GP6,SP5
STS-LN0520T4020	0.5 – 2.0	40/45	3.8	20	2.0	30	2:1/2:1	350	GP8,SP6
STS-LN2080T2010	2.0 – 8.0	20/25	4.0	10	1.5	20	2:1/2:1	200	GP4,SP3
STS-LN2080T3015	2.0 – 8.0	30/35	4.0	15	1.8	25	2:1/2:1	300	GP6,SP5
STS-LN2080T4020	2.0 – 8.0	40/45	4.0	20	2.0	30	2:1/2:1	400	GP8,SP6
STS-LN6012T2010	6.0 – 12.0	20/25	4.0	10	1.8	20	2:1/2:1	220	GP4,SP3
STS-LN6012T3015	6.0 – 12.0	30/35	4.0	15	2.0	25	2:1/2:1	300	GP6,SP5
STS-LN6012T4020	6.0 – 12.0	40/45	4.0	20	2.2	30	2:1/2:1	400	GP8,SP6
STS-LN8018T2010	8.0 – 18.0	20/25	4.3	10	2.0	19	2:1/2:1	250	GP4,SP3
STS-LN8018T3015	8.0 – 18.0	30/35	4.3	15	2.2	24	2:1/2:1	350	GP6,SP5
STS-LN8018T4020	8.0 – 18.0	40/45	4.3	20	2.4	29	2:1/2:1	450	GP8,SP6
STS-LN6018T2010	6.0 – 18.0	20/25	4.5	10	2.2	19	2:1/2:1	250	GP4,SP3
STS-LN6018T3015	6.0 – 18.0	30/35	4.5	15	2.4	24	2:1/2:1	350	GP6,SP5
STS-LN6018T4020	6.0 – 18.0	40/45	4.5	20	2.6	29	2:1/2:1	450	GP8,SP6
STS-LN2018T2009	2.0 – 18.0	20/25	6.0	9	2.5	18	2.2:1/2.2:1	250	GP4,SP3
STS-LN2018T3015	2.0 – 18.0	30/35	6.0	15	2.7	24	2.2:1/2.2:1	400	GP6,SP5
STS-LN2018T4020	2.0 – 18.0	40/45	6.0	20	3.0	28	2.2:1/2.2:1	500	GP8,SP6

Note: *+15Vdc or other DC voltage is available upon request.

STS 0.5 ~ 26.5GHz Broad Band Medium Power Amplifiers (PA)

Features:

- **Up to 2 Watts Output Power**
- **High Dynamic Range**
- **Compact and Rugged Thin-Film Construction**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @15Vdc (mA) Typ.	Case Option SKC-
+258C									
STS-P0515N2024	0.5 – 1.5	20	7.0	24	1.3	33	2:1/2:1	450	GP2
STS-P0515N3027	0.5 – 1.5	30	7.0	27	1.5	35	2:1/2:1	700	GP4
STS-P0515N4030	0.5 – 1.5	40	7.0	30	1.8	37	2:1/2:1	900	PLL
STS-P0520N2024	0.5 – 2.0	20	7.0	24	1.5	33	2:1/2:1	450	GP2
STS-P0520N3027	0.5 – 2.0	30	7.0	27	1.8	35	2:1/2:1	700	GP4
STS-P0520N4030	0.5 – 2.0	40	7.0	30	2.0	37	2:1/2:1	900	PLL
STS-P1020N2024	1.0 – 2.0	20	6.0	24	1.3	33	2:1/2:1	450	GP2
STS-P1020N2027	1.0 – 2.0	30	6.0	27	1.5	35	2:1/2:1	700	GP4
STS-P1020N2030	1.0 – 2.0	40	6.0	30	1.8	37	2:1/2:1	900	PLL
STS-P1020N2033	1.0 – 2.0	40	6.0	33	2.0	40	2:1/2:1	1400	PL2
STS-P2040N2024	2.0 – 4.0	20	6.0	24	1.6	33	2:1/2:1	450	GP2
STS-P2040N2027	2.0 – 4.0	30	6.0	27	1.8	35	2:1/2:1	800	GP4
STS-P2040N2030	2.0 – 4.0	40	6.0	30	2.0	37	2:1/2:1	1100	PC1
STS-P2040N2033	2.0 – 4.0	40	6.0	33	2.2	40	2:1/2:1	1800	PC2
STS-P2060N2024	2.0 – 6.0	20	6.0	24	1.7	33	2:1/2:1	450	GP2
STS-P2060N3027	2.0 – 6.0	30	6.0	27	1.9	35	2:1/2:1	800	GP4
STS-P2060N4030	2.0 – 6.0	40	6.0	30	2.1	37	2:1/2:1	1300	PC1
STS-P2060N4033	2.0 – 6.0	40	6.0	33	2.3	40	2:1/2:1	2000	PC2
STS-P2080N2024	2.0 – 8.0	20	7.0	24	1.8	33	2:1/2:1	500	GP2
STS-P2080N3027	2.0 – 8.0	30	7.0	27	2.0	35	2:1/2:1	900	GP4
STS-P2080N4030	2.0 – 8.0	40	7.0	30	2.2	37	2:1/2:1	1400	PC1
STS-P2080N4033	2.0 – 8.0	40	7.0	33	2.5	40	2:1/2:1	2200	PC2
STS-P5011N2024	5.0 – 11.0	20	7.0	24	1.8	33	2:1/2:1	600	GP2
STS-P5011N3027	5.0 – 11.0	30	7.0	27	2.0	35	2:1/2:1	1000	GP4
STS-P5011N4030	5.0 – 11.0	40	7.0	30	2.2	37	2:1/2:1	1600	PX1
STS-P6012N2024	6.0 – 12.0	20	7.0	24	1.8	33	2:1/2:1	600	GP4
STS-P6012N3027	6.0 – 12.0	30	7.0	27	2.0	35	2:1/2:1	1000	GP6
STS-P6012N4030	6.0 – 12.0	40	7.0	30	2.2	37	2:1/2:1	1600	PK1
STS-P6018N2024	6.0 – 18.0	20	8.0	24	2.2	33	2:1/2:1	700	GP4
STS-P6018N3027	6.0 – 18.0	30	8.0	27	2.4	35	2:1/2:1	1200	GP6
STS-P6018N4030	6.0 – 18.0	40	8.0	30	2.6	37	2:1/2:1	2400	PK1
STS-P8018N2024	8.0 – 18.0	20	8.0	24	2.0	33	2:1/2:1	700	GP4

STS 0.5 ~ 26.5GHz Broad Band Medium Power Amplifiers (PA)

(Continue...)

Features:

- **Up to 2 Watts Output Power**
- **High Dynamic Range**
- **Compact and Rugged Thin-Film Construction**

STS Model #	Freq. Range (GHz) Min.	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (6dB) Max.	IP3 (dBm) Typ.	VSWR I/O Max.	Current @15Vdc (mA) Typ.	Case Option SKC-
+258C									
STS-P8018N3027	8.0 – 18.0	30	8.0	27	2.2	35	2:1/2:1	1200	GP6
STS-P8018N4030	8.0 – 18.0	40	8.0	30	2.4	37	2:1/2:1	2400	PK1
STS-P1826N2017	18.0 – 26.5	20	8.0	17	2.0	27	2.2:1/2.2:1	500	GK2
STS-P1826N3020	18.0 – 26.5	30	8.0	20	2.2	30	2.2:1/2.2:1	700	GK3
STS-P1826N4020	18.0 – 26.5	40	8.0	20	2.4	30	2.2:1/2.2:1	900	GK4

STS 0.5 ~ 18.0GHz Broad Band Limiting Amplifiers (LA)

Features:

- **High Dynamic Range**
- **Flat Limiting Output Power Response**
- **Design to Meet MIL-STD-883**

STS Model #	Freq. Range (GHz) Min.	Input Power (dBm) Min.	Noise Figure (dB) Max.	Psat (dBm) Min./ Max.	Psat Flatness (6dB) Max.	VSWR I/O Max.	Current @ 12Vdc* (mA) Typ.	Case Option SKC-
+258C								
STS-L0520N4515	0.5 – 2.0	-30	5.0	12/17	1.2	2:1/2:1	400	GP4, SP4
STS-L0520N4520	0.5 – 2.0	-25	5.0	17/22	1.5	2:1/2:1	500	GP4, SP4
STS-L1545N4515	1.5 – 4.5	-30	5.0	12/17	1.2	2:1/2:1	400	GP4, SP4
STS-L1545N4520	1.5 – 4.5	-25	5.0	17/22	1.5	2:1/2:1	500	GP4, SP4
STS-L2060N4515	2.0 – 6.0	-30	5.0	12/17	1.2	2:1/2:1	400	GP4, SP4
STS-L2060N4520	2.0 – 6.0	-25	5.0	17/22	1.5	2:1/2:1	500	GP4, SP4
STS-L2080N4515	2.0 – 8.0	-30	6.0	12/17	1.2	2:1/2:1	400	GP4, SP4
STS-L2080N4520	2.0 – 8.0	-25	6.0	17/22	1.5	2:1/2:1	500	GP4, SP4
STS-L8012N4515	8.0 – 12.0	-30	6.0	12/17	1.0	2:1/2:1	450	GP6, SP6
STS-L8012N4520	8.0 – 12.0	-25	6.0	17/22	1.2	2:1/2:1	550	GP6, SP6
STS-L8018N4515	8.0 – 18.0	-30	6.0	12/17	1.2	2:1/2:1	450	GP6, SP6
STS-L8018N4520	8.0 – 18.0	-25	6.0	17/22	1.5	2:1/2:1	550	GP6, SP6
-548C to +858C								
STS-L0520T9015	0.5 – 2.0	-60	6.0	12/17	1.5	2:1/2:1	800	GP4(X2) / SP4(X2)
STS-L0520T9020	0.5 – 2.0	-60	6.0	17/22	1.8	2:1/2:1	1000	GP4(X2) / SP4(X2)
STS-L1545T515	1.5 – 4.5	-60	6.0	12/17	1.5	2:1/2:1	800	GP4(X2) / SP4(X2)
STS-L1545T620	1.5 – 4.5	-60	6.0	17/22	1.8	2:1/2:1	1000	GP4(X2) / SP4(X2)
STS-L2060T9015	2.0 – 6.0	-60	6.0	12/17	1.5	2:1/2:1	800	GP4(X2) / SP4(X2)
STS-L2060T9020	2.0 – 6.0	-60	6.0	17/22	1.8	2:1/2:1	1000	GP4(X2) / SP4(X2)
STS-L2080T9015	2.0 – 8.0	-60	7.0	12/17	1.5	2:1/2:1	800	GP4(X2) / SP4(X2)
STS-L2080T9020	2.0 – 8.0	-60	7.0	17/22	1.8	2:1/2:1	1000	GP4(X2) / SP4(X2)
STS-L8012T9015	8.0 – 12.0	-60	7.0	12/17	1.2	2:1/2:1	900	GP6(X2) / SP6(X2)
STS-L8012T9020	8.0 – 12.0	-60	7.0	17/22	1.5	2:1/2:1	1100	GP6(X2) / SP6(X2)
STS-L8018T9015	8.0 – 18.0	-60	7.0	12/17	1.5	2:1/2:1	900	GP6(X2) / SP6(X2)
STS-L8018T9020	8.0 – 18.0	-60	7.0	17/22	1.8	2:1/2:1	1100	GP6(X2) / SP6(X2)

Note: *+15Vdc or other DC voltage is available upon request.

STS 0.5 ~ 26.5GHz Broad Band Isolation Amplifiers (IA)

Features:

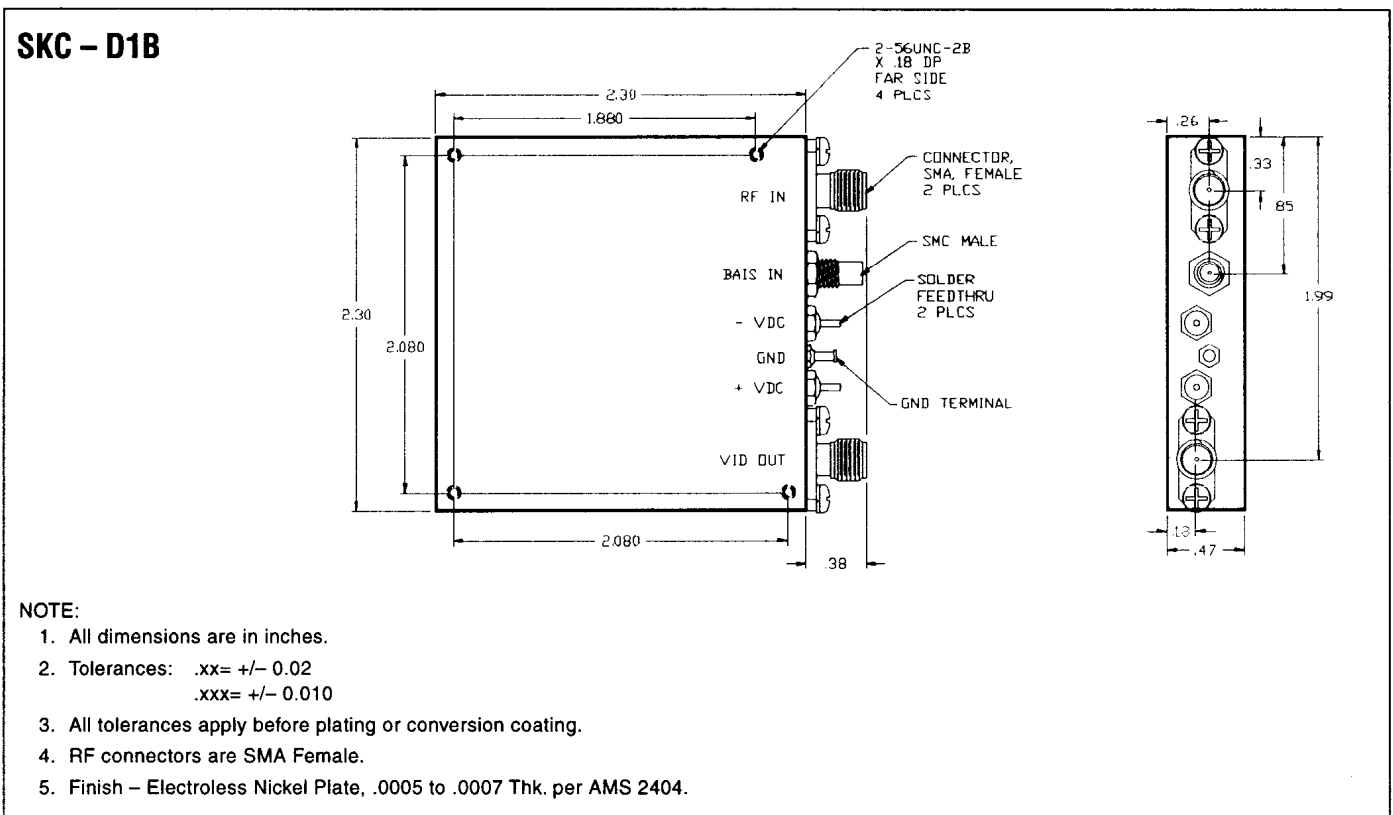
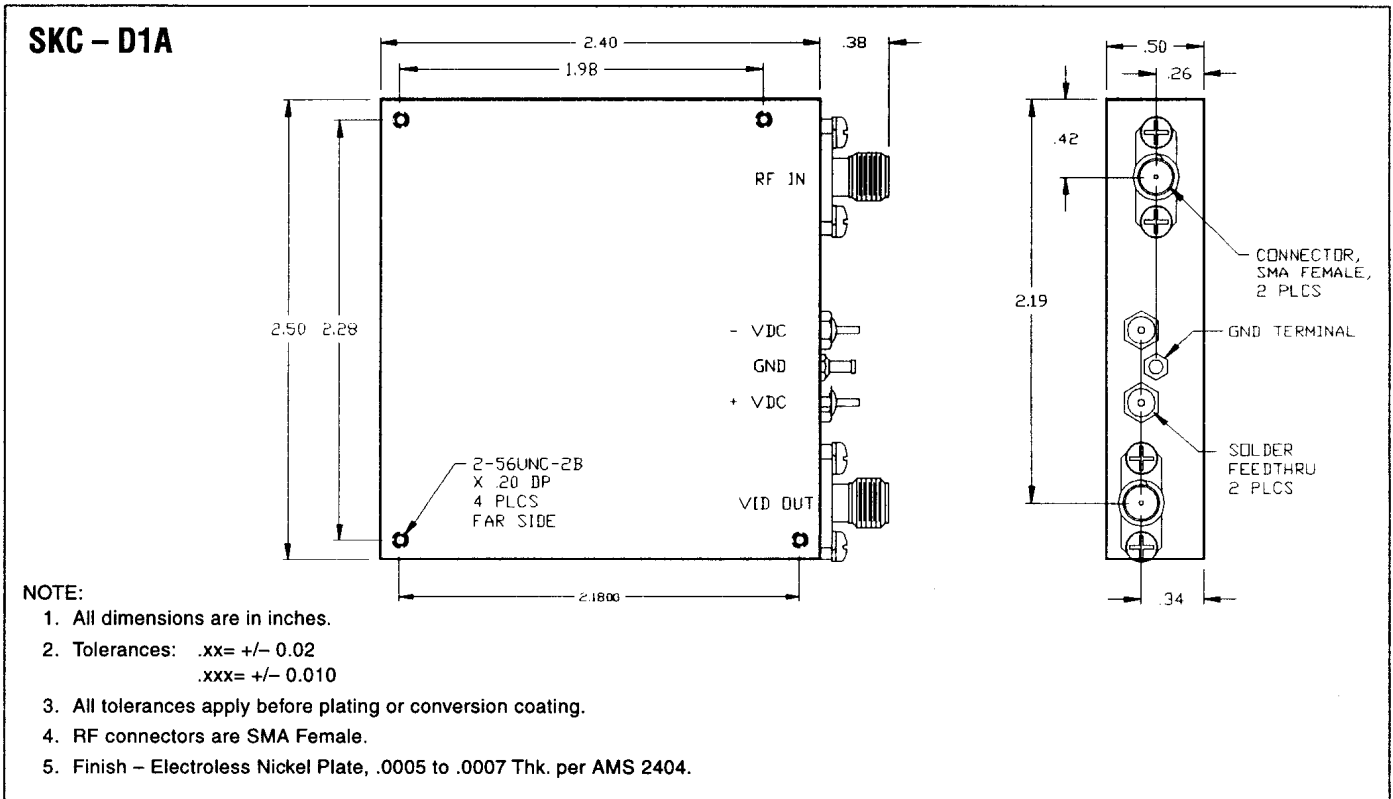
- **Broad Bandwidth, Ferrite-Free High Isolation**
- **Positive Gain, Medium Power Output**
- **Compact and Rugged Thin-Film Construction**

STS Model #	Freq. Range (GHz) Min.	P1dB Out (dB) Min.	Gain (dB) Typ.	Reverse Isolation (dB) Typ.	VSWR I/O Max.	Current @12Vdc* (mA) Typ.	Case Option SKC-
+258C							
STS-I0520N220	0.5 – 2.0	20	10	20	2:1/2:1	150	GP2, SP1
STS-I0520N320	0.5 – 2.0	20	20	30	2:1/2:1	200	GP2, SP1
STS-I0520N420	0.5 – 2.0	20	30	40	2:1/2:1	250	GP4, SP2
STS-I2080N120	2.0 – 8.0	20	8	20	2:1/2:1	120	GP2, SP1
STS-I2080N220	2.0 – 8.0	20	16	30	2:1/2:1	200	GP2, SP1
STS-I2080N320	2.0 – 8.0	20	25	40	2:1/2:1	280	GP4, SP2
STS-I6018N120	6.0 – 18.0	20	5	20	2:1/2:1	120	GP2, SP1
STS-I6018N220	6.0 – 18.0	20	10	30	2:1/2:1	200	GP2, SP1
STS-I6018N320	6.0 – 18.0	20	15	40	2:1/2:1	280	GP4, SP2
STS-I2018N120	2.0 – 18.0	20	5	25	2:1/2:1	320	GP2, SP1
STS-I2018N220	2.0 – 18.0	20	10	35	2:1/2:1	420	GP2, SP1
STS-I2018N320	2.0 – 18.0	20	16	40	2:1/2:1	500	GP4, SP2
STS-I8020N120	8.0 – 20.0	20	4	18	2:1/2:1	150	GP2, SP1
STS-I8020N220	8.0 – 20.0	20	8	35	2:1/2:1	230	GP2, SP1
STS-I8020N320	8.0 – 20.0	20	12	40	2:1/2:1	300	GP4, SP2
STS-I18265N119	18.0 – 26.5	19	5	30	2:1/2:1	280	GK1
STS-I18265N219	18.0 – 26.5	19	8	40	2:1/2:1	380	GK2

Note: *+15Vdc or other DC voltage is available upon request.

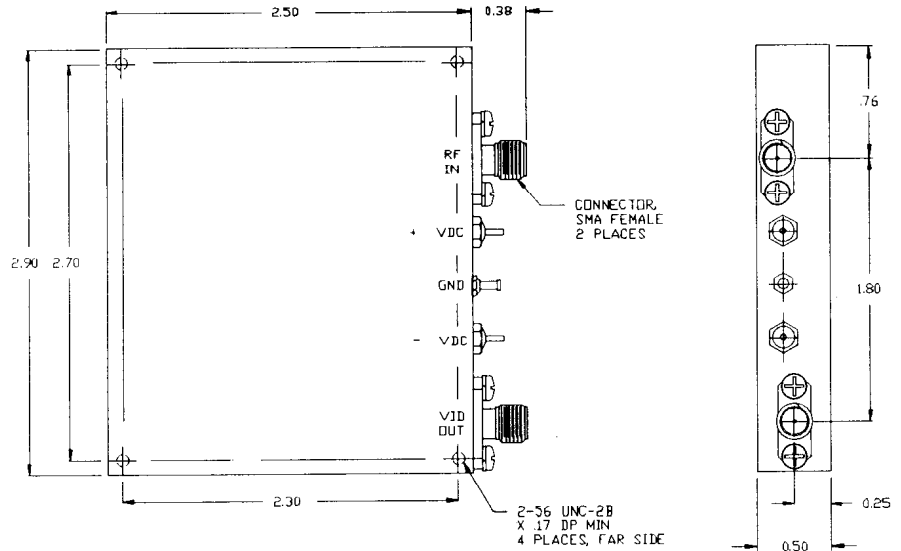
Appendix

Case Outline Option

D1A, D1B


D2, D3A/B/C

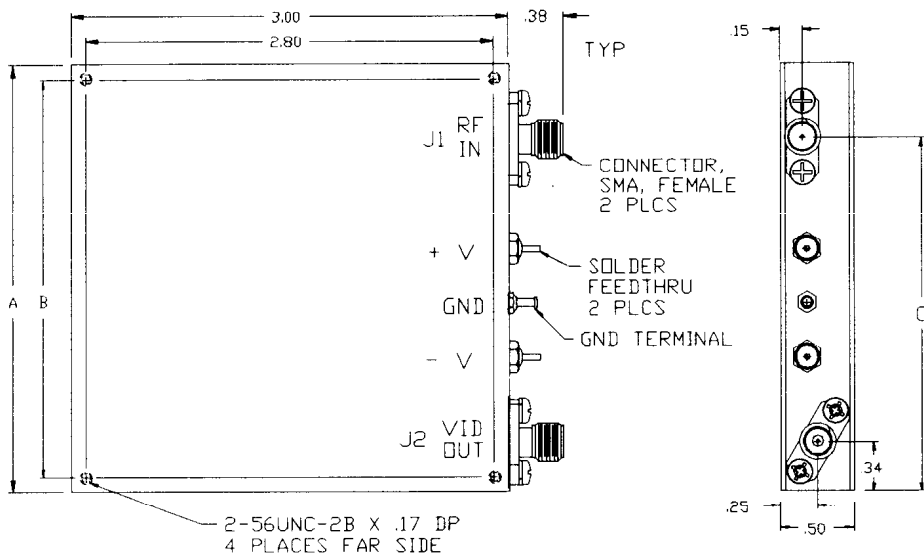
SKC - D2



NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

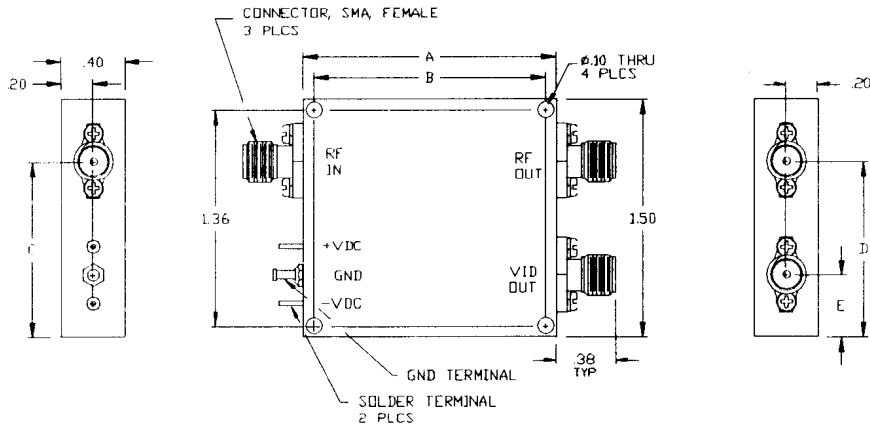
SKC - D3A/D3B/D3C



NOTE:

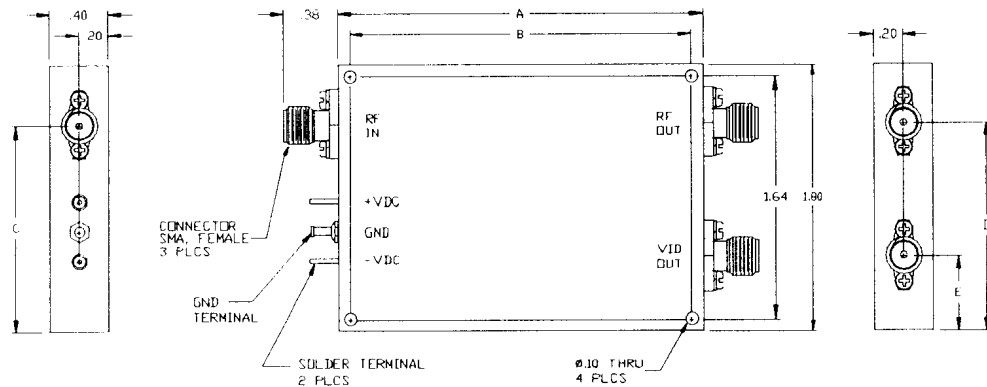
1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

MODEL NO.	DIMENSION		
	A	B	C
SKC-D3A	2.90	2.70	2.30
SKC-D3B	3.00	2.80	2.26
SKC-D3C	2.90	2.70	2.40

PS1/2/3, S1A/2A/2B
SKC – S1A/S2A/S2B

NOTE:

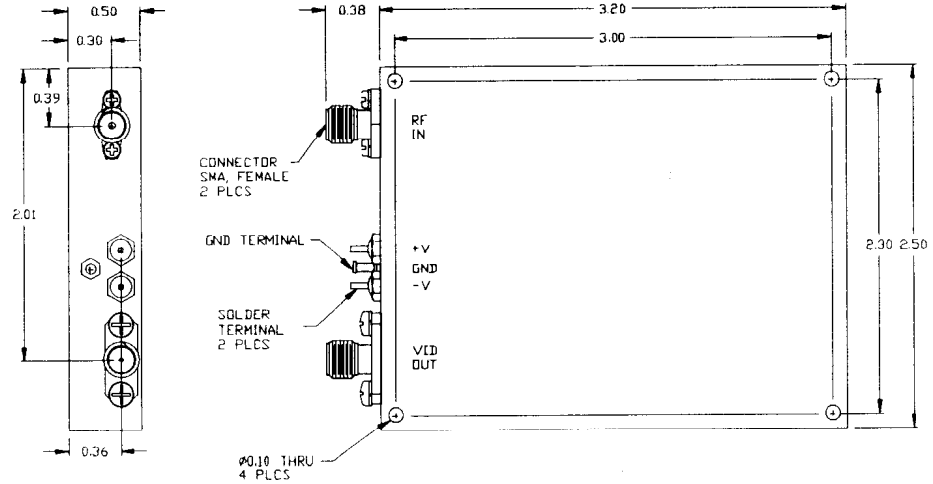
1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish – Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

CASE	A	B	C	D	E
SKC-S1A	1.50	1.36	1.11	1.11	.39
SKC-S2A	1.60	1.46	1.11	1.11	.39
SKC-S2B	1.80	1.65	.85	1.13	.36

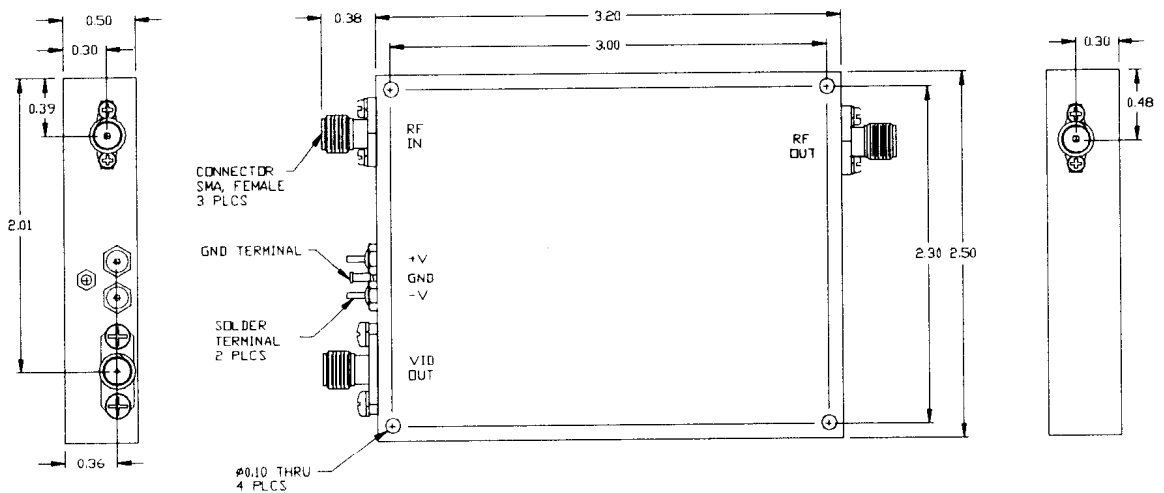
SKC – PS1/PS2/PS3

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish – Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

CASE	A	B	C	D	E
SKC-PS1	2.50	2.34	1.40	1.40	.50
SKC-PS2	3.10	2.94	1.11	1.38	.50
SKC-PS3	3.20	3.08	1.38	1.38	.50

PSA, PSB
SKC - PSA

NOTE:

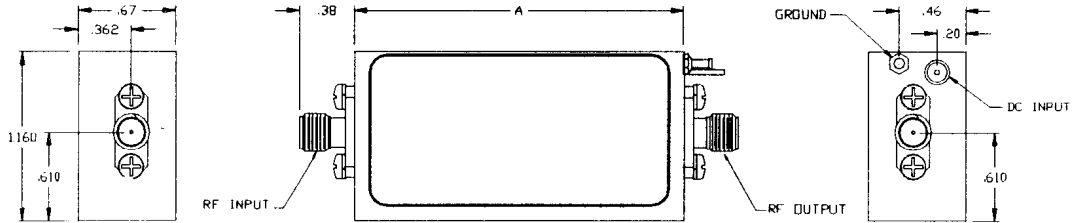
1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

SKC - PSB

NOTE:

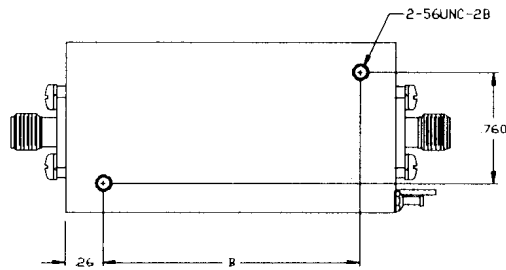
1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

GP2/4/6/8/10, SP1~8

SKC – GP2/GP4/GP6/GP8/GP10



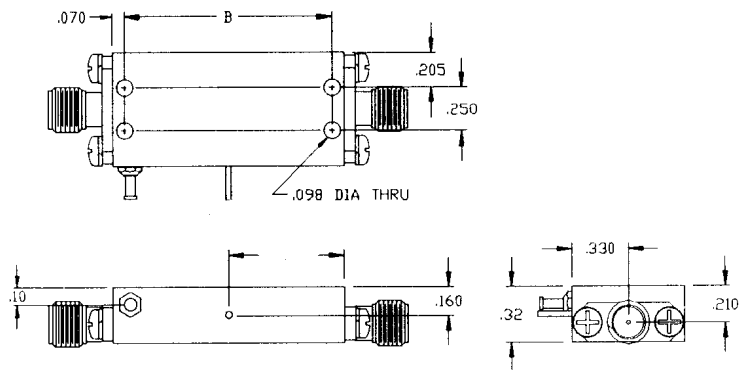
CASE	A	B
SKC-GP2	1.260	.760
SKC-GP4	1.760	1.260
SKC-GP6	2.260	1.760
SKC-GP8	2.760	2.260
SKC-GP10	3.260	2.760


NOTE:

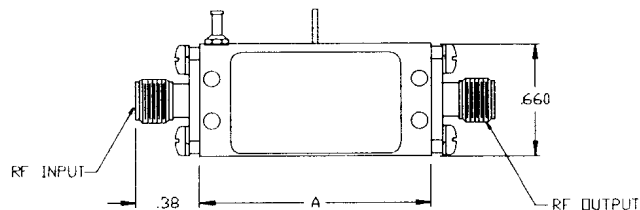
1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish – Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

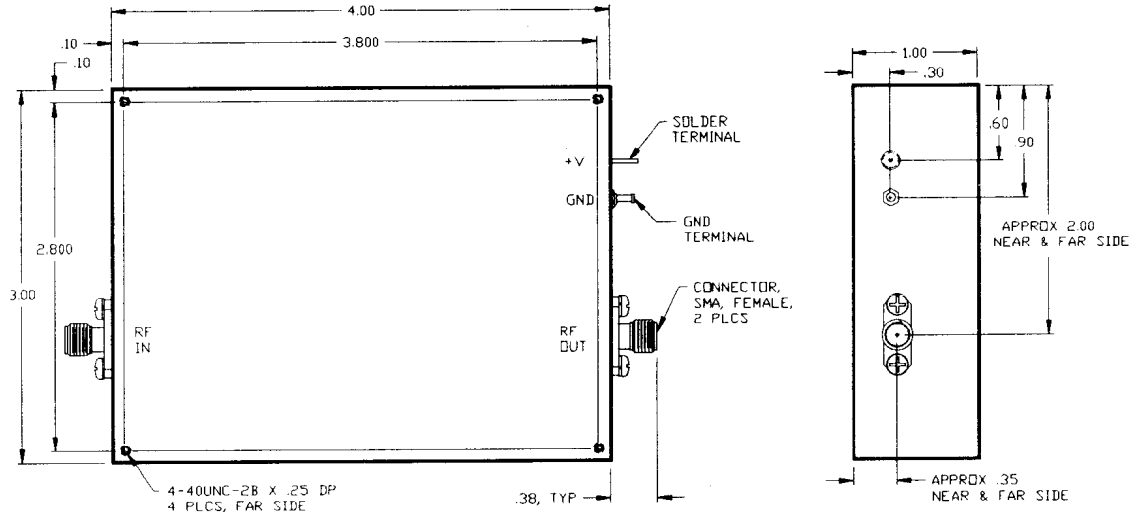
SKC – SP1-SP8

CASE	A	B	C
SKC-SP1	1.116	.976	.43
SKC-SP2	1.359	1.220	.68
SKC-SP3	1.602	1.462	.68
SKC-SP4	1.845	1.705	.92
SKC-SP5	2.068	1.946	.92
SKC-SP6	2.331	2.190	1.17
SKC-SP7	2.574	2.434	1.41
SKC-SP8	2.817	2.677	1.41

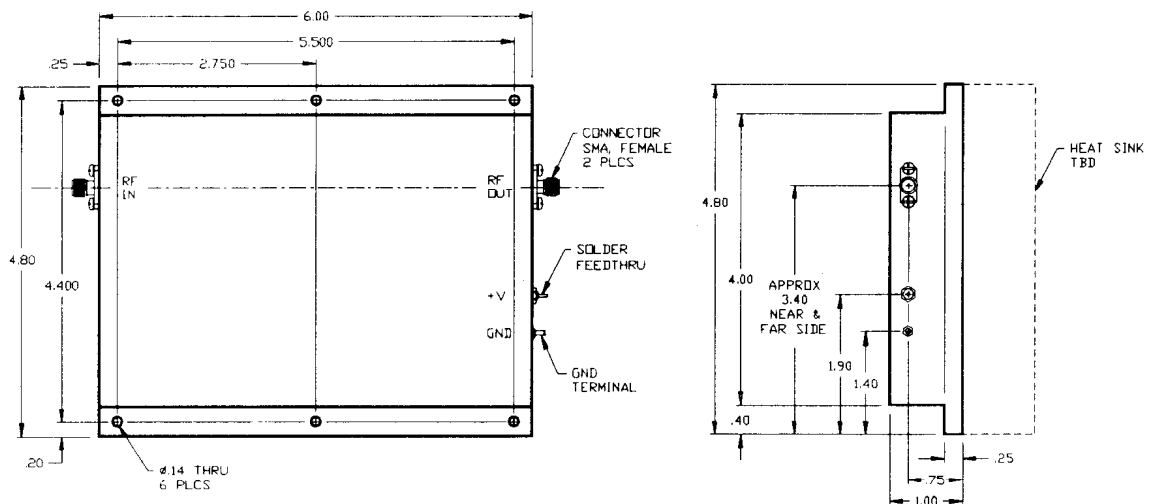

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish – Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

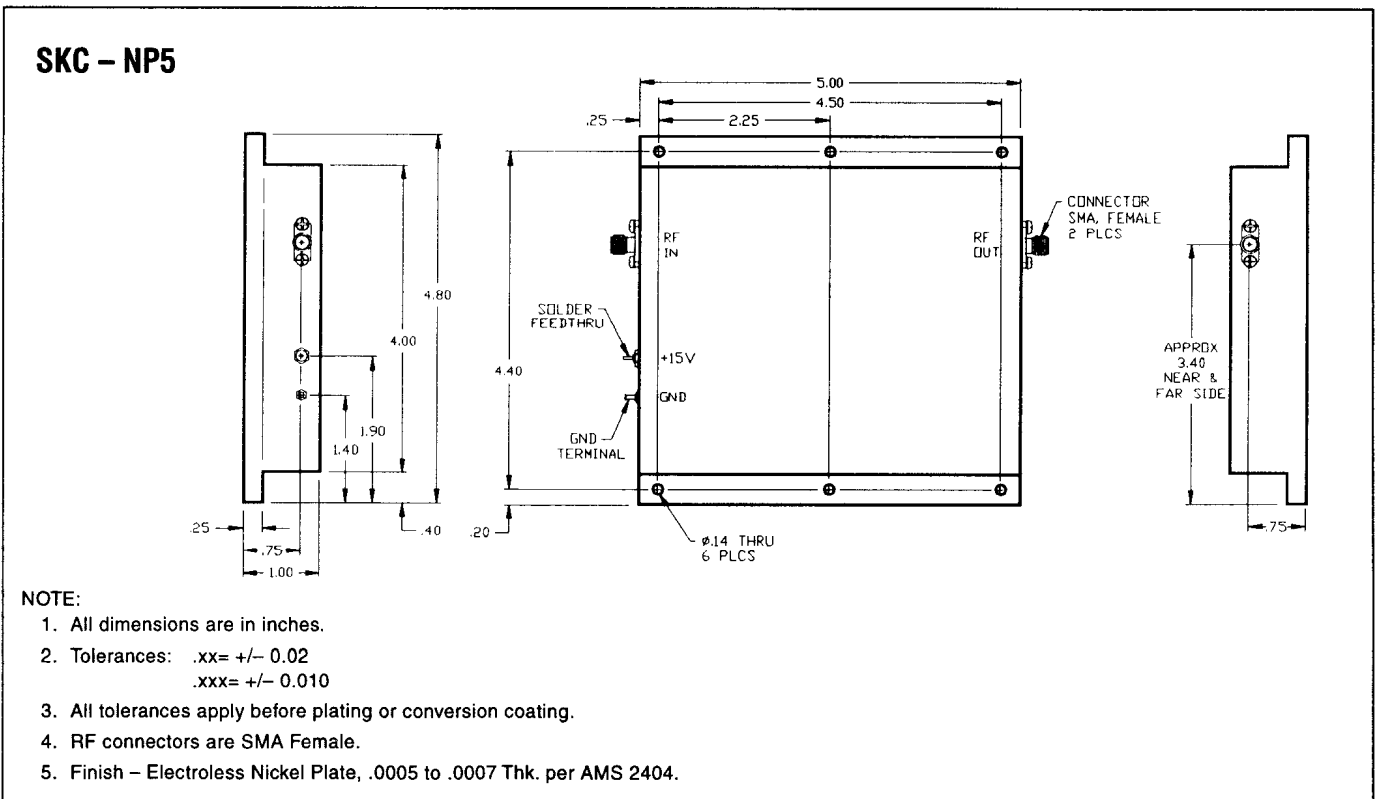
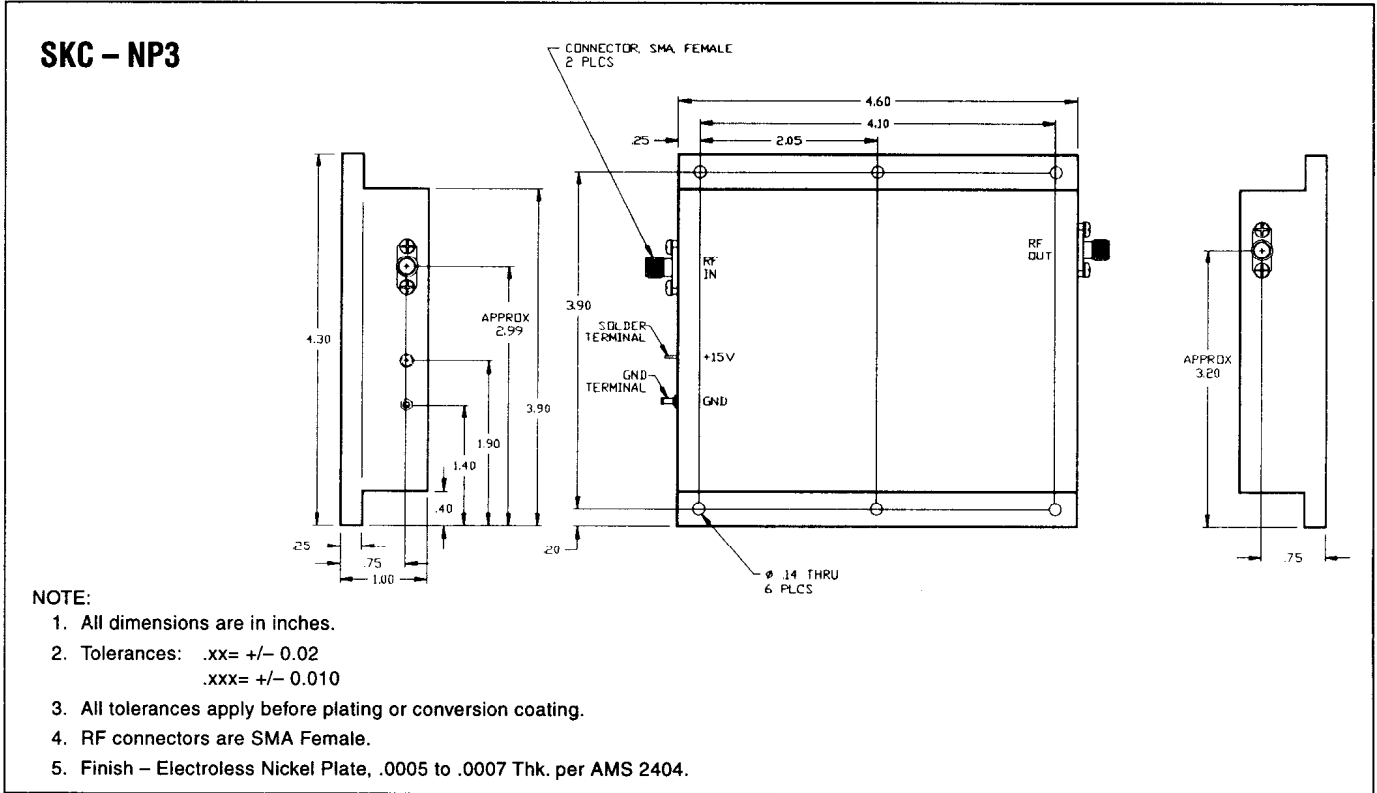


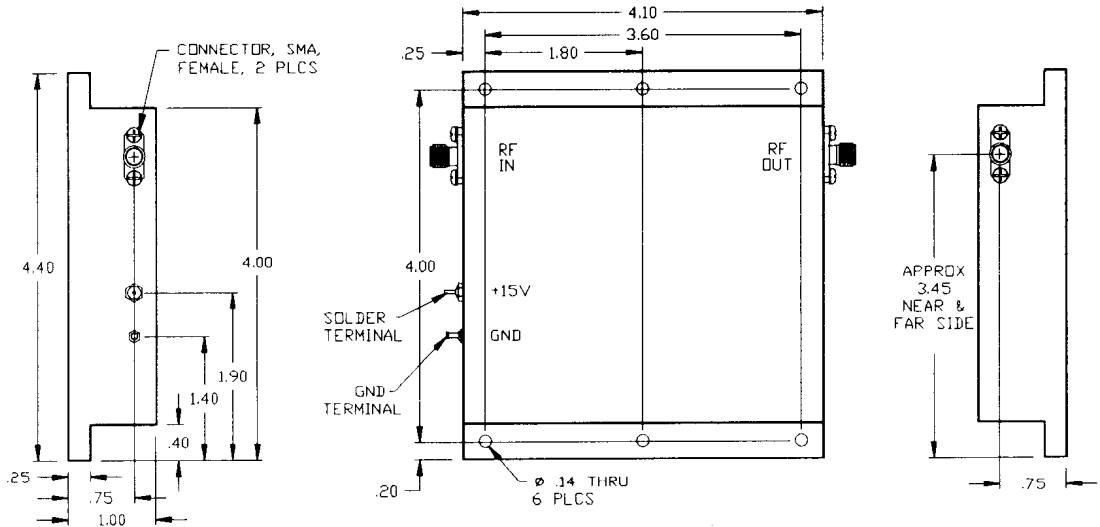
NP1, NP2
SKC - NP1

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

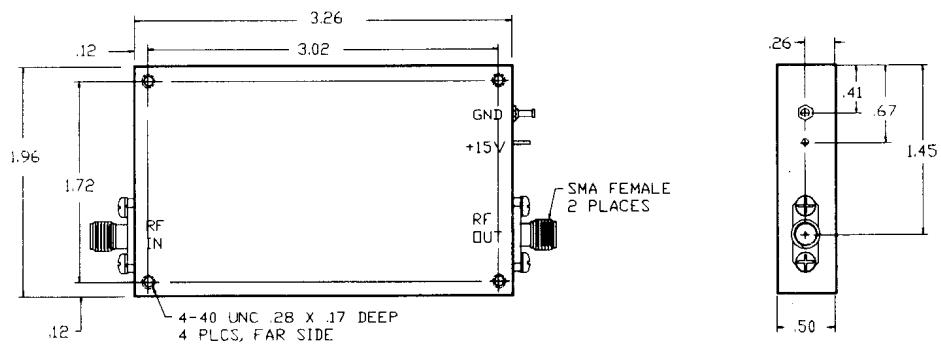
SKC - NP2

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

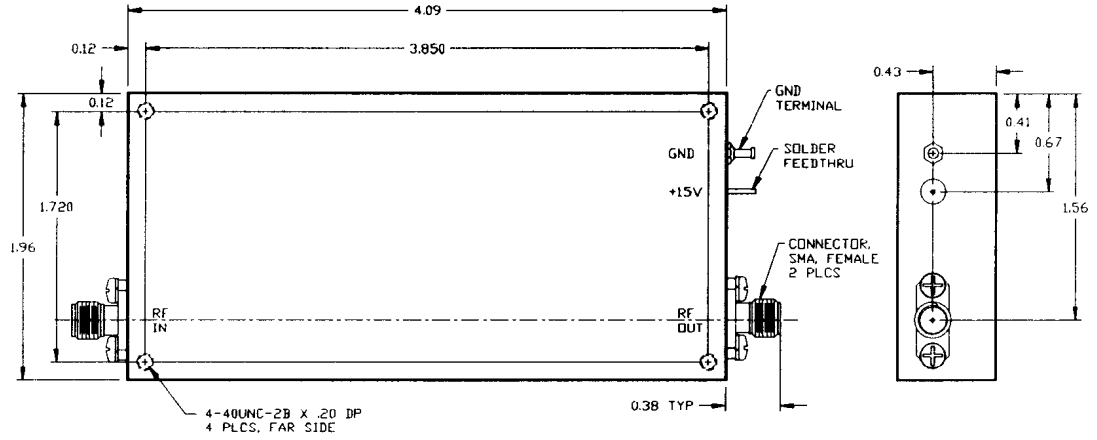
NP3, NP5


NP7, PX1
SKC - NP7

NOTE:

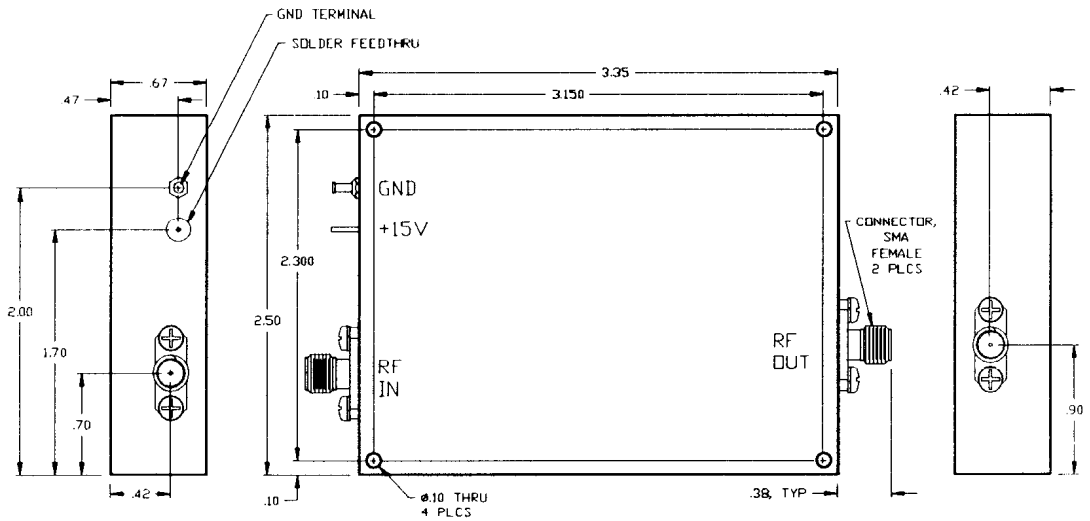
1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

SKC - PX1

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

PC2, PK1
SKC - PC2

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

SKC - PK1

NOTE:

1. All dimensions are in inches.
2. Tolerances: .xx= +/- 0.02
.xxx= +/- 0.010
3. All tolerances apply before plating or conversion coating.
4. RF connectors are SMA Female.
5. Finish - Electroless Nickel Plate, .0005 to .0007 Thk. per AMS 2404.

