

RF Instrument Amplifier

TVA-63-183A+

50Ω

6 to 18 GHz

Features

- Instrument model with built-in power supply 110/220 VAC
- Gain, 24 dB typ.
- Unconditionally stable
- Output Power, up to 17 dBm typ.
- Excellent Isolation, 62 dB typ.
- Thermally self-protected, LED indicator
- Good matching at input and output
- CE marked

Applications

- Lab use
- Wideband test instrumentation



CASE STYLE: PJ2059

Connectors Model

SMA TVA-63-183A+

+RoHS Compliant

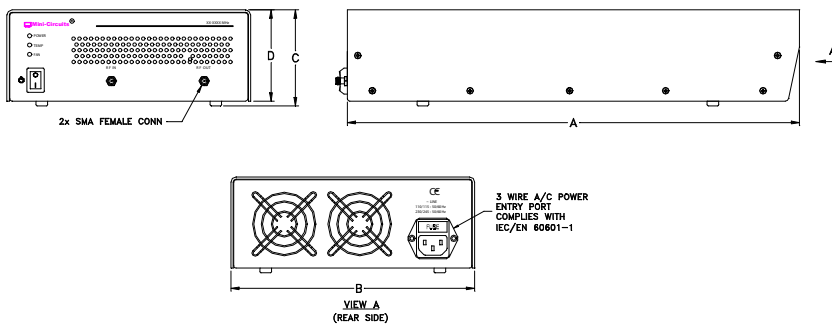
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C, unless otherwise noted

Parameter	Condition (GHz)	Min	Typ.	Max.	Units
Frequency Range		6	—	18	GHz
Gain	6 - 18	20	24	—	dB
Gain Flatness	6 - 18	—	±1.5	—	dB
Output Power at 1dB compression	6 - 18	15	17	—	dBm
Noise Figure	6 - 18	—	6.4	—	dB
Output third order intercept point	6 - 18	—	26	—	dBm
Input VSWR	6 - 18	—	1.5	—	:1
Output VSWR	6 - 18	—	1.25	—	:1
AC Supply Voltage	47 - 63 Hz	85	110/220	265	V

Note: Keep area adjacent to the airvents clear to allow free air flow.

Outline Drawing



Maximum Ratings

Parameter	Ratings
Operating Temperature	0°C to 55°C
Storage Temperature	-40°C to 70°C
Input RF Power (no damage)	+20 dBm

Permanent damage may occur if any of these limits are exceeded.

Outline Dimensions (inch/mm)

A	B	C	D	W.T.
15.35	8.27	3.25	3.09	GRAM
389.89	210.06	82.55	78.49	2490

Notes

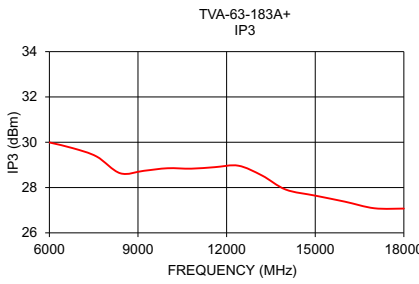
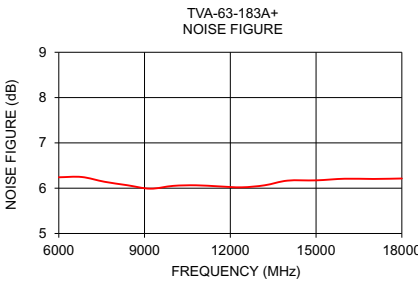
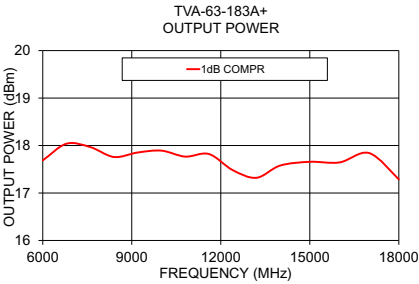
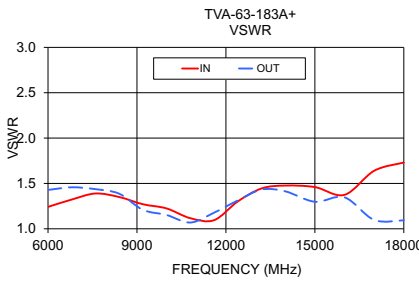
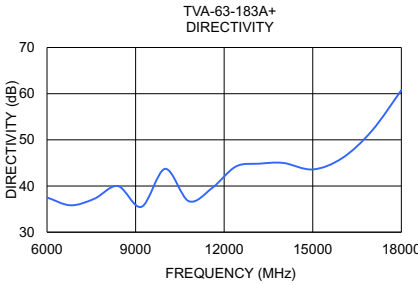
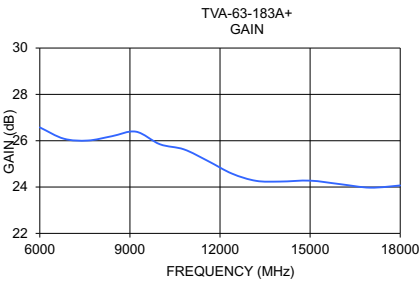
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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)	IP3 (dBm)
			IN	OUT			
6000	26.57	37.52	1.24	1.43	6.24	17.69	29.99
6800	26.09	35.82	1.32	1.46	6.25	18.04	29.74
7600	26.01	37.23	1.39	1.44	6.14	17.97	29.37
8400	26.19	39.99	1.35	1.39	6.06	17.76	28.63
9200	26.39	35.49	1.27	1.21	5.99	17.85	28.74
10000	25.85	43.72	1.22	1.15	6.05	17.89	28.85
10800	25.63	36.72	1.12	1.07	6.06	17.77	28.83
11600	25.12	39.61	1.10	1.18	6.04	17.82	28.90
12400	24.58	44.23	1.30	1.31	6.02	17.48	28.96
13200	24.27	44.84	1.44	1.43	6.06	17.32	28.53
14000	24.24	45.00	1.48	1.41	6.17	17.58	27.91
15000	24.28	43.59	1.46	1.30	6.17	17.66	27.64
16000	24.12	46.06	1.37	1.35	6.21	17.64	27.38
17000	23.97	51.94	1.64	1.10	6.20	17.84	27.09
18000	24.07	60.76	1.73	1.09	6.21	17.29	27.07



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