

Plug-In Attenuator/Switch

50Ω Bi-Phase 100 to 2000 MHz

PAS-2000+
PAS-2000



CASE STYLE: A05
PRICE: \$29.70 ea. QTY. (1-9)

+RoHS Compliant

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

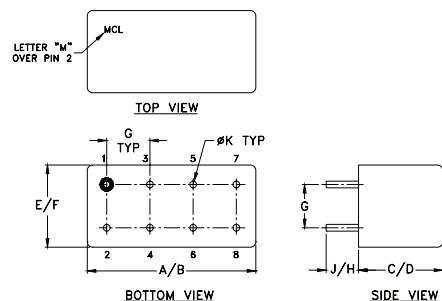
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Control Current	30mA
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

INPUT	1
OUTPUT	8
CONTROL	3
GROUND	2,5,6,7
CASE GROUND	2,5,6,7
NOT USED	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.240	.250	.370	.400
19.56	20.32	6.10	6.35	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		3.7

Features

- wideband, 100 to 2000 MHz
- excellent amplitude and phase unbalance
- low profile, rugged shielded case

Applications

- bi-phase modulator

Attenuator/Switch Electrical Specifications

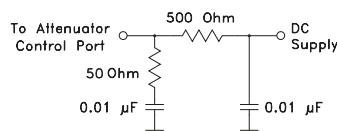
FREQUENCY (MHz)	INSERTION LOSS (dB) ±20 mA	MAX. INPUT PWR (dBm) ±20 mA	IN-OUT ISOLATION (dB) 0 mA						BI-PHASE X (±20 mA) Typ.			
			L		M		U		ΔAMP (dB)		Phase (deg.) deviation from 180°	
IN f _L -f _U	CON	Mid-Band m Typ. Max.	Total Range Typ. Max.	1 dB compr.	no damage	Typ.	Min.	Typ.	Min.	Typ.	Min.	Total Range
100-2000	DC-0.5	4.2 6.5	5.4 7.5	19*	25	30	22	—	—	26	20	0.3 0.4 5.0 8.0

L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U] m = [2 f_L to f_U/2]

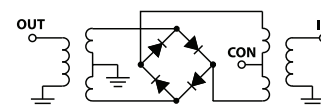
* 15 dBm from 100-800 MHz.

Performance specifications apply for input power up to 10 dB below stated 1 dB compression.

suggested control port biasing configuration

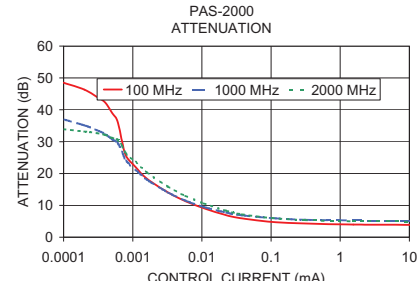
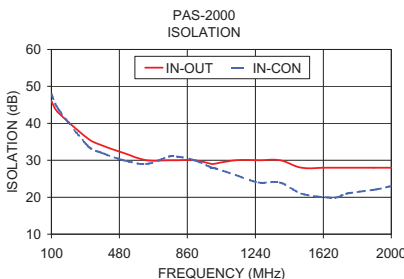
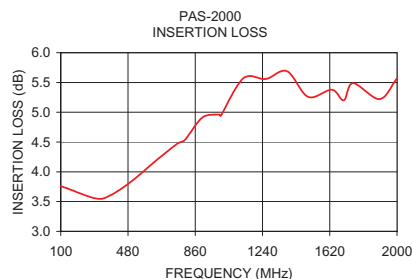


electrical schematic



Typical Performance Data

Freq. (MHz)	I. Loss (dB) at 20mA	±Control ΔAMP (dB)	20mA ΔPhase (deg.)	Isolation (dB) (in-out) (in-con)	Input R. Loss (dB)	Control Current (mA)	Attenuation (dB)			Phase Δ ref at 15mA Ctrl			Input VSWR		
							100 MHz	1000 MHz	2000 MHz	100 MHz	1000 MHz	2000 MHz	100 MHz	1000 MHz	2000 MHz
100.0	3.76	0.01	0.02	179.40	46.00	48.00	9.50	0.00	51.00	38.90	34.40	89.60	18.60	46.60	1.60 4.70 2.90
137.1	3.72	0.00	0.01	179.00	43.00	44.00	10.20	0.00	48.50	37.00	33.90	91.30	12.90	42.20	1.60 4.70 2.90
301.5	3.55	0.00	0.03	178.20	36.00	34.00	11.00	0.00	46.30	35.10	33.20	89.80	8.70	35.10	1.60 4.60 2.90
383.8	3.61	0.00	0.04	177.70	34.00	32.00	10.50	0.00	44.10	33.60	32.70	85.50	5.80	31.00	1.50 4.60 2.90
503.4	3.85	0.01	0.08	177.10	32.00	30.00	9.30	0.00	42.30	32.40	32.10	84.80	2.40	27.00	1.50 4.60 2.90
630.4	4.17	0.03	0.18	176.40	30.00	29.00	7.90	0.00	39.10	30.80	31.20	78.50	-1.40	21.20	1.50 4.60 2.90
757.5	4.47	0.06	0.21	176.30	30.00	31.00	6.90	0.00	36.50	29.70	30.60	71.50	-4.80	16.80	1.50 4.50 2.90
802.4	4.54	0.06	0.22	176.40	30.00	31.00	6.70	0.00	30.20	26.80	28.70	53.50	-12.00	6.90	1.50 4.40 2.80
899.5	4.91	0.11	0.27	176.10	30.00	30.00	6.30	0.00	25.50	24.00	26.30	43.00	-15.60	-0.90	1.40 4.20 2.70
996.7	4.96	0.11	0.28	175.90	29.00	28.00	6.20	0.00	22.00	21.20	23.60	36.60	-16.40	-5.90	1.40 4.00 2.60
1004.2	4.94	0.12	0.28	175.80	29.00	28.00	6.20	0.00	18.40	18.10	20.30	31.00	-16.00	-8.80	1.30 3.70 2.40
1131.3	5.57	0.16	0.36	175.70	30.00	26.00	6.40	0.00	14.10	14.10	15.90	24.30	-13.70	-9.80	1.20 3.30 2.00
1258.3	5.56	0.11	0.36	175.50	30.00	24.00	7.00	0.01	11.30	11.50	13.00	19.50	-11.10	-8.90	1.20 3.10 1.80
1377.9	5.69	0.05	0.37	175.50	30.00	24.00	7.70	0.01	9.10	9.50	10.60	14.80	-8.60	-7.50	1.30 3.00 1.60
1497.5	5.26	0.05	0.33	175.20	28.00	21.00	8.70	0.02	6.90	7.70	8.30	9.50	-5.50	-5.40	1.50 2.90 1.40
1632.1	5.38	0.05	0.27	174.70	28.00	20.00	10.00	0.04	5.90	6.90	7.20	6.70	-4.00	-4.00	1.60 2.90 1.40
1699.4	5.20	0.07	0.29	174.20	28.00	20.00	10.80	0.10	4.80	6.00	6.00	3.20	-2.00	-2.10	1.80 3.00 1.50
1751.7	5.49	0.07	0.27	174.20	28.00	21.00	11.30	0.31	4.30	5.50	5.40	1.30	-0.90	-1.00	1.90 3.00 1.60
1901.2	5.22	0.09	0.23	173.00	28.00	22.00	12.40	1.55	4.00	5.30	5.00	0.40	-0.40	-0.40	2.00 3.00 1.70
2000.0	5.57	0.16	0.25	172.70	28.00	23.00	12.50	15.11	3.90	5.20	4.90	0.10	-0.10	0.00	2.00 3.10 1.70



Notes

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