

Electronic Attenuators/Switches

SCIENTIFIC/ MINI-CIRCUITS

B03-27
T-74-13-01

1 MHz to 2.0 GHz

case style selection

outline drawings see Table of Contents



LRAS



TFAS



SYAS

PAS
GAS

MODEL NO.	FREQUENCY MHz		INSERTION LOSS dB				MAX. INPUT POWER dBm		IN-OUT ISOLATION dB						BI-PHASE \bar{X} (± 20 mA)				PRICE \$	DISTRIBUTOR	
	IN f_L-f_U	CON	(± 20 mA)				(± 20 mA)		(0 mA)						Δ AMP (dB)	Phase Deviation From 180°	Qty. [1-9]	F A C T O R Y	L O C A L		
			Mid-Band m	Total Range	Typ.	Max.	1 dB comp.	no damage	L Typ.	M Min.	U Typ.	M Min.	U Typ.	M Min.						Total m	Range
PAS case A01	*PAS-1	5-450 DC-0.05	3.5	4.0	3.5	4.7	20	30	65	50	45	35	35	25	0.1	0.1	0.5	1.2	33.95	•	•
	*PAS-2	10-1000 DC-0.05	4.0	6.0	6.5	8.5	20	30	50	40	40	30	35	25	0.1	0.3	0.5	1.0	47.95	•	•
	*PAS-3	1-200 DC-0.05	1.4	2.0	1.6	2.5	15	30	65	50	50	40	50	35	0.1	0.1	0.5	1.0	34.95	•	•
	*PAS-2000	100-2000 DC-0.5	4.2	6.5	5.4	7.5	19	25	30	22	—	—	26	30	0.3	0.4	5.0	8.0	24.95	•	•
TFAS case B02	*TFAS-1	2-400 DC-0.05	1.4	2.0	1.6	3.0	20▽	25	65	45	45	33	35	25	0.1	0.1	1.0	2.0	13.95	•	•
	*TFAS-2	10-1000 DC-0.5	3.7	4.5	5	8	17	25	50	30	42	20	31	20	0.1	0.2	2.0	3.0	17.95	•	•
	*TFAS-860	500-1000 DC-0.5	—	—	1.5	5.4	14	25	30 (typ.)	—	—	20 (min.)	—	—	—	0.3	—	4.0	19.95	•	•
SYAS case TTT167	*SYAS-1	2-400 DC-0.05	1.4	2.0	1.6	3.0	20▽	25	65	45	45	33	35	25	0.1	0.1	1.0	2.0	9.95	•	•
	*SYAS-2	10-1000 DC-0.05	4.0	6.0	4.5	7.0	17	25	59	40	42	28	28	20	0.1	0.3	2.0	3.0	13.95	•	•
	*SYAS-860	600-1000 DC-0.5	—	—	2.7	5.7	14	25	—	—	25	18	—	—	—	0.5	—	4.0	15.95	•	•
ZFAS case K18	*ZFAS-2000	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	64.95	•	•

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=mid band ($2 f_L$ to $f_U/2$)

pin and coaxial connections

see case style outline drawings

Series	PAS			L/RAS	SYAS	TFAS	ZFAS	ZAS ZMAS
Models	— 1	— 2	— 2000	all models	all models	all models	all models	all models
OUT	8	8	8	4	2	4	1	1
IN	1	1	1	1	1	1	2	3
CONTROL	*3,4	*3,4	3	5	3	2	3	2
GND♦	2,5,6,7	2,5,6,7	—	2,3,6	4,5,6	—	—	—
CASE GND	2	2,5,6,7	2,5,6,7	—	—	3	—	—
NOT USED	—	—	4	—	—	—	—	—

* pins 3 and 4 must be connected together externally

♦ Ground externally. All measurements made with GND pin(s) grounded externally.

NOTES:

- Recommended for electronic attenuator.
 - Recommended for bi-phase modulator.
 - ▽ +15 dBm from 100-800 MHz.
 - ▽ +15 dBm from 2-10 MHz.
 - ▽ +13 dBm from 10-500 MHz
 - NON-HERMETIC, TFAS units available in surface-mount, add suffix SM to part no., see case NNN-150
 - Available on tape and reel. Please consult factory.
1. Refer to Table of Contents for quality control procedures, environmental specifications, absolute maximum ratings, and hi-rel testing.
 2. For connector types and case mounting options, see case style outline drawings.
 3. Prices and specifications subject to change without notice.