

FEATURES

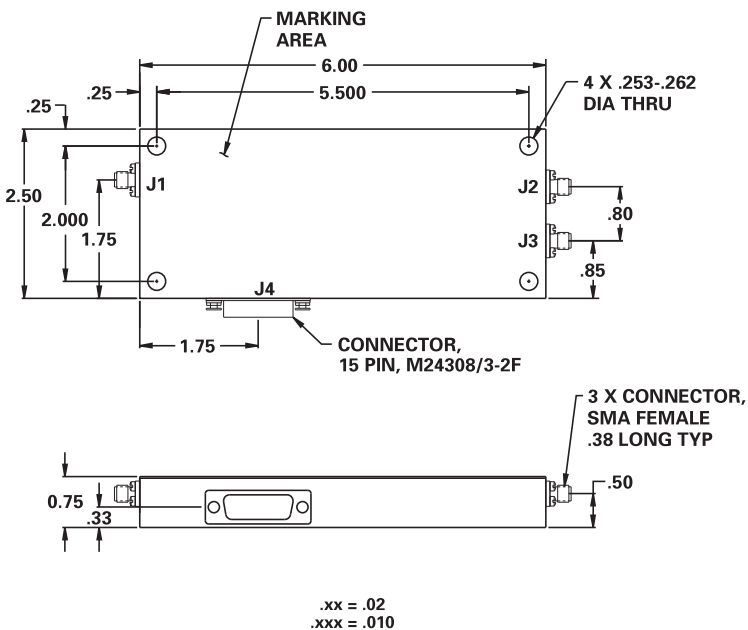
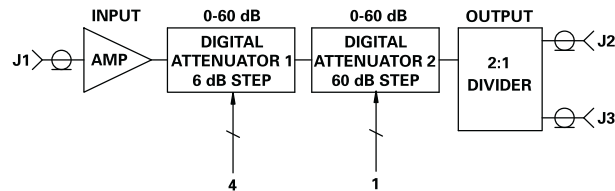
- 420 - 450 MHz
- Gain +7.5 dB
- Attenuation 120 dB
- LSB, 6 dB
- Phase Tracking ±3 dB
- 3° Max Phase Tracking



**MODEL NO.
100D9104**

Amp Attenuator Divider

MFD



J4

PIN NUMBER	BOARD NUMBER	FUNCTION
1	1	BIT 1 (+)
2	2	BIT 1 (-)
3	3	BIT 2 (+)
4	4	BIT 2 (-)
5	5	BIT 3 (+)
6	6	BIT 3 (-)
7	7	BIT 4 (+)
8	8	BIT 4 (-)
9	9	BIT 5 (+)
10	10	BIT 5 (-)
11	-	NO CONNECTION
12	E1	GND
13	E2	GND
14	11	+15V
15	12	+15V

JUMPER PINS 14 & 15

TABLE I CONTROL LOGIC

LOGIC	BIT 1 6dB		BIT 2 12dB		BIT 3 24dB		BIT 4 48dB		BIT 5 60dB		SETTING	
	J4 PIN 1 (+)	J4 PIN 2 (-)	J4 PIN 3 (+)	J4 PIN 4 (-)	J4 PIN 5 (+)	J4 PIN 6 (-)	J4 PIN 7 (+)	J4 PIN 8 (-)	J4 PIN 9 (+)	J4 PIN 10 (-)		
0	LO	HI	0	LO	HI	0	LO	HI	0	LO	HI	THRU
1	HI	LO	0	LO	HI	0	LO	HI	0	LO	HI	6dB
0	LO	HI	1	HI	LO	0	LO	HI	0	LO	HI	12dB
1	HI	LO	1	HI	LO	0	LO	HI	0	LO	HI	18dB
0	LO	HI	0	LO	HI	1	HI	LO	0	LO	HI	24dB
1	HI	LO	0	LO	HI	1	HI	LO	0	LO	HI	30dB
0	LO	HI	1	HI	LO	1	HI	LO	0	LO	HI	36dB
1	HI	LO	1	HI	LO	1	HI	LO	0	LO	HI	42dB
0	LO	HI	0	LO	HI	0	LO	HI	1	HI	LO	48dB
1	HI	LO	0	LO	HI	1	HI	LO	1	HI	LO	54dB
0	LO	HI	1	HI	LO	0	LO	HI	1	HI	LO	60dB
0	LO	HI	0	LO	HI	0	LO	HI	1	HI	LO	60dB
0	LO	HI	1	HI	LO	0	LO	HI	1	HI	LO	120dB
1	HI	LO	1	HI	LO	1	HI	LO	1	HI	LO	120dB MIN

LOGIC "1"= (+) INPUT HIGH, (-) INPUT LOW = ACTIVE HIGH
 LOGIC "0"= (+) INPUT LOW, (-) INPUT HIGH = ACTIVE LOW

GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	420		450	MHz	
DC Current		.5	.75	mA	At +15 VDC Supply
Control Type					
Control Current	High			1A	VIH = +2.7 V
	Low			1A	VIL = +0.5 V
Insertion Gain	+7	7.5	+8	dB	Excluding 3 dB
Isolation	80			dB	Between each Combiner Output / Output
	20			dB	
VSWR		1.2/1	1.3/1		
Impedance		50		OHMS	
Switching Speed			1	µSec	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time				nSec	90% / 10% or 10% / 90% RF
Switching (Video) Transients				V	Peak Value
Intercept Points				dBm	
				dBm	
RF Power	Operate		+18	dBm	
	No Damage		+20	dBm	
Operating Temperature				°C	TA