

GaAs,

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> ■ 180° Phase Difference 0 to 4 GHz ■ 0.5 dB Amplitude Balance ■ 30 dB Reverse Isolation ■ 15 dB Input Port Return Loss ■ 10 dB Output Port Return Loss 	<ul style="list-style-type: none"> ■ Two Phase Clock Drivers ■ Diode Bridge Drivers ■ Balanced Modulators ■ Complementary Data Generators ■ Pulse Inverters

ELECTRICAL CHARACTERISTICS (1) (2) ($T_A = 25^\circ\text{C}$; $V_{SS} = -7\text{ VOLTS}$)

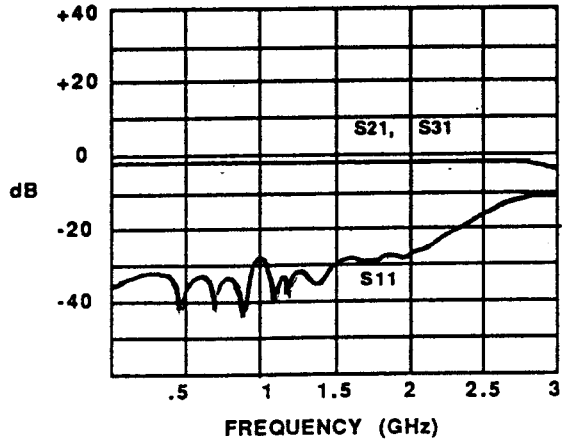
PARAMETER	MIN	TYP	MAX	UNITS
3 dB Bandwidth	3	3.5		GHz
Phase Balance		1.0		Degrees
Amplitude Balance		0.3	0.7	dB
Insertion Loss (Single Port)		2.0		dB
Reverse Isolation	20	30		dB
Isolation Between Outputs	20	30		dB
Input Return Loss	15	20		dB
Output Return Loss	9	12		dB
Transmission Delay		200		pS
Noise Figure		12		dB
Compression Level		+3		dBm
3rd Order Intercept Point		+8		dBm
Large Signal Rise/Fall Time		100	117	pS
Supply Current	40	60	80	mA

- (1) Electrical characteristics at an input frequency of 2 GHz using test circuit shown.
- (2) Case bottom is RF ground. The APS30010F1 should be attached to a thermally conductive surface.

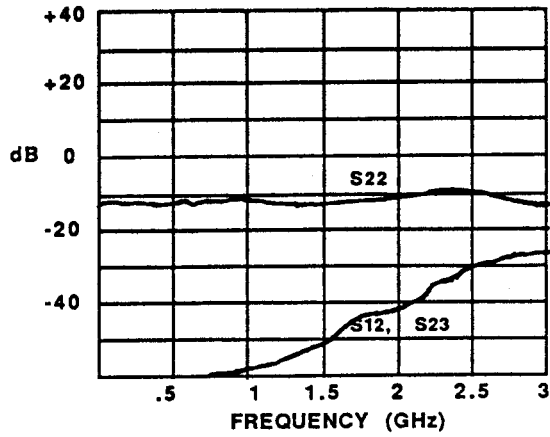
Anadigics reserves the right to make changes in specifications without notice.

5/11/85
181
005995
0019

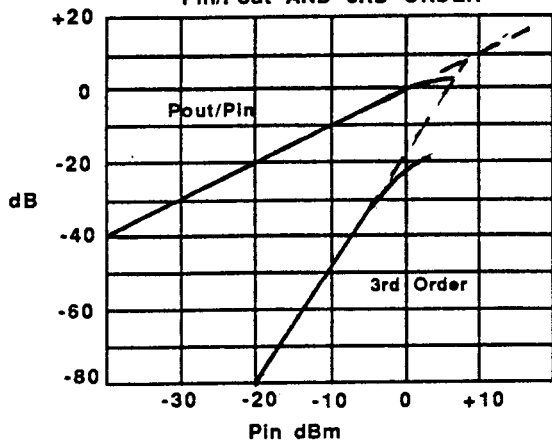
GAIN AND INPUT RETURN LOSS



OUTPUT RETURN LOSS AND REVERSE ISOLATION



Pin/Pout AND 3RD ORDER



PHASE/AMPLITUDE BALANCE

