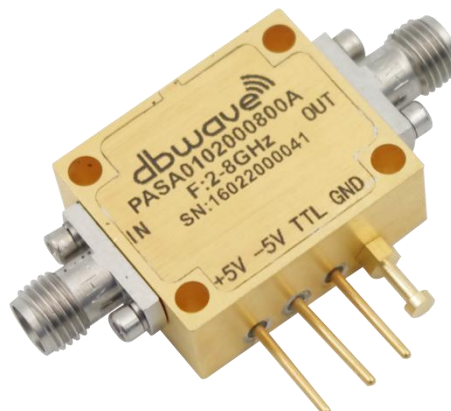


Features

- Wide Band Operation 2-8GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request
- Hermetically sealed package up to 60,000 ft available upon request.



Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Fiber Optics

RF Microwave & VSAT
Test Instrument

Parameters	Min	Typ.	Max	Units
Frequency Range		2-8		GHz
Insertion Loss		1.0	1.2	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	80	90		dB
Input VSWR		1.3	1.4	
Output VSWR		1.3	1.4	
RF Input power (CW)	1			W
Power Dissipation (CW)		0.3		W
0.1dB Compression P0.1dB		30		dBm
IM3		40		dBc
IIP3		50		dBm
Switching Speed			100	ns
Weight		0.35		ounces
Impedance		50		Ω
Biasing(+5V/-5V)		50/30		mA
Input /Output Connector		SMA-Female		
Finishing		Gold Plating		
Material		Aluminum		
Seal		Hermetically Sealed (optional)		

Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
TTL Control Voltage	0~0.8V/2~5V
Operating Temperature	-45 ~ +85°C
Storage Temperature	-55 ~+125°C

Environment specifications

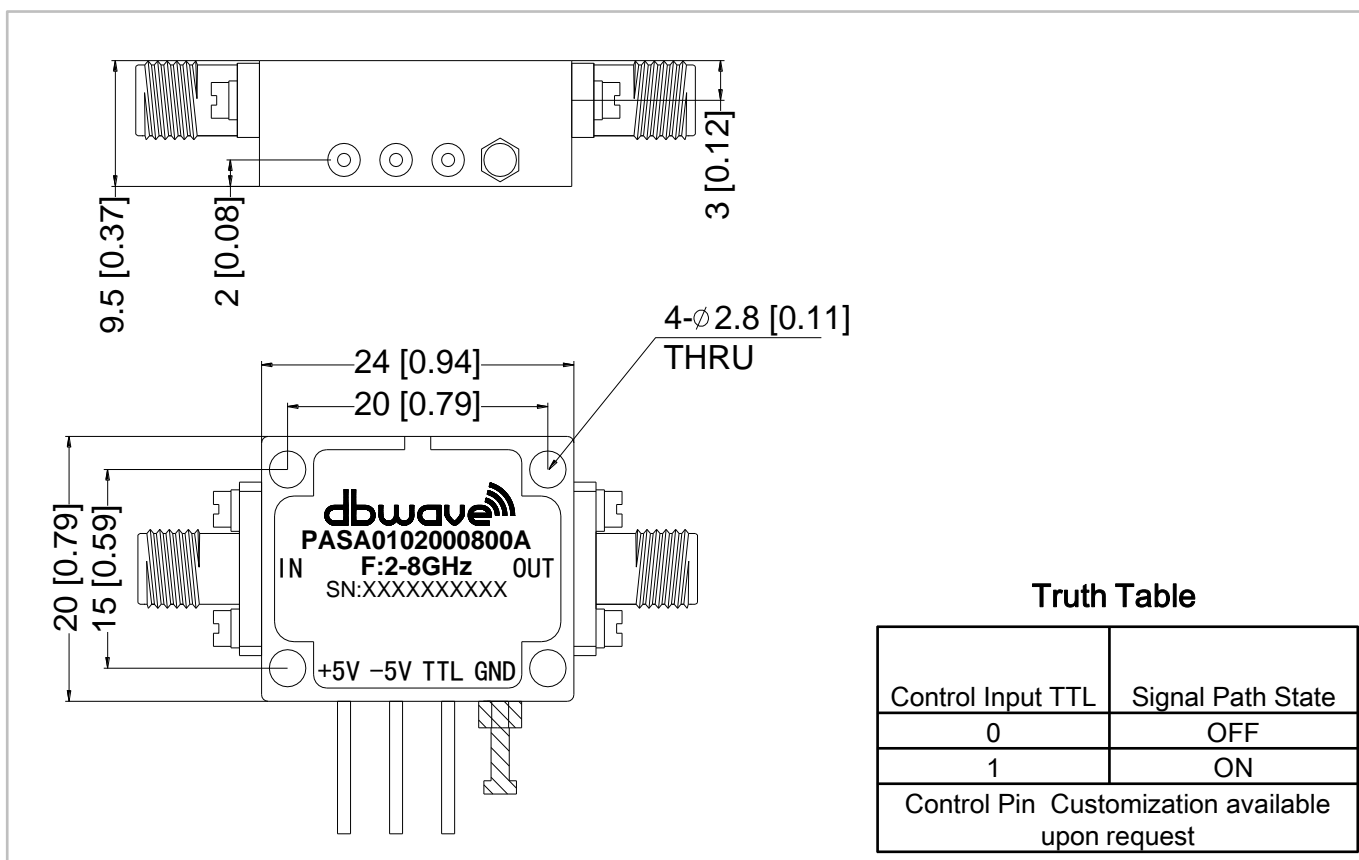
Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C
Altitude	30,000 ft. (Epoxy Seal Controlled environment)
(Optional)	60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msc half sin wave,3 axis both directions

Ordering Information

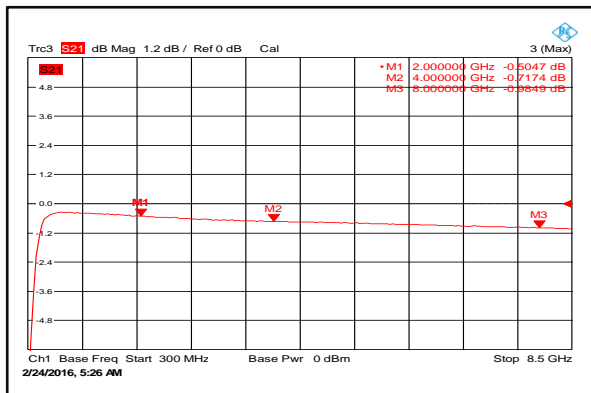
Part No	ECCN	Description
PASA0102000800A	EAR99	SPST 2-8GHz PIN Diode Switch

Outline Drawing:

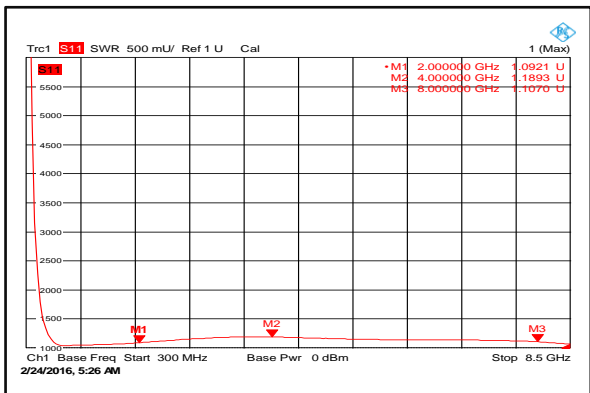
All Dimensions in mm (inches)



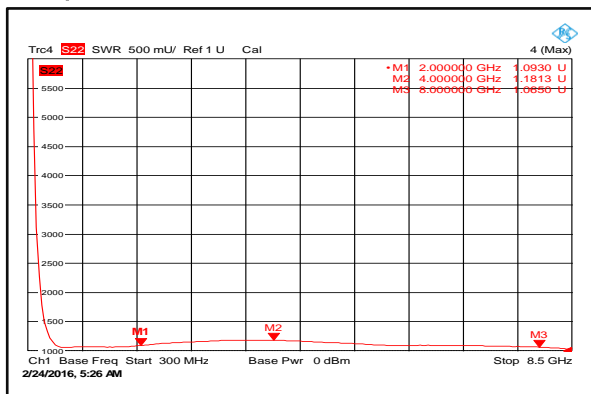
Insertion Loss



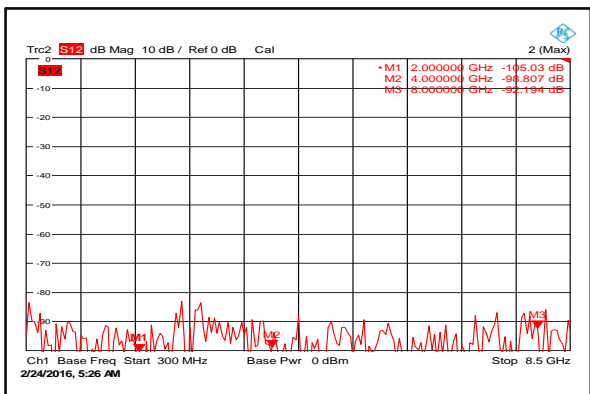
Input VSWR



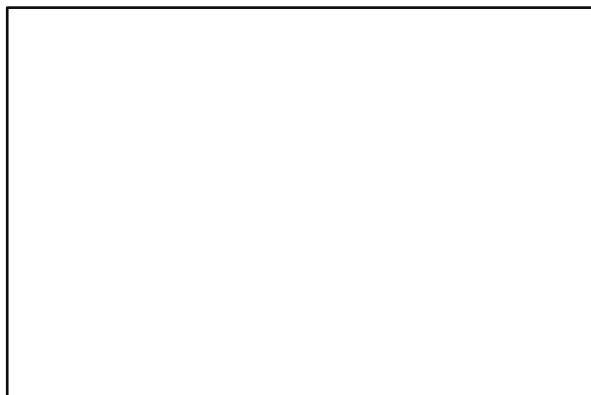
Output VSWR



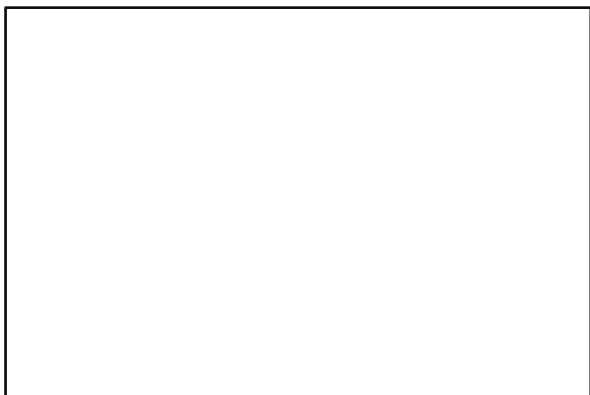
Isolation



Output Third Order Intercept (IP3)



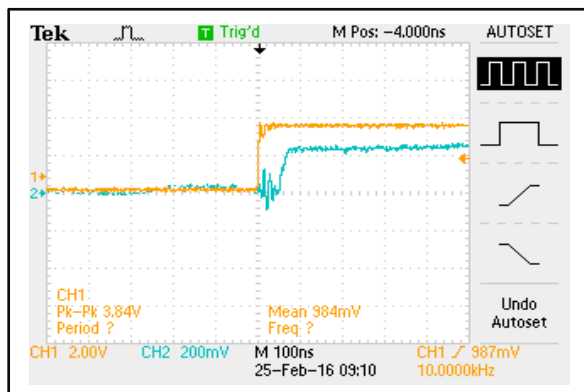
P1dB vs. Frequency



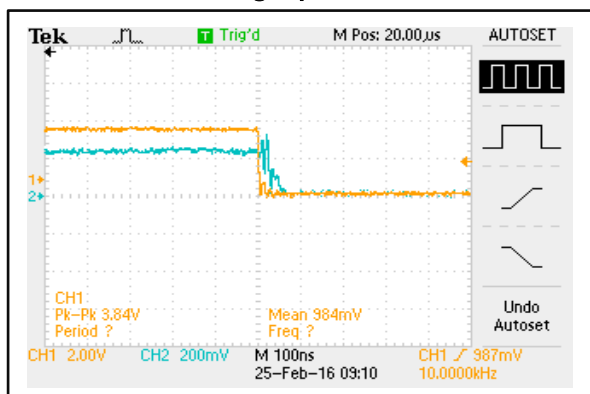
The datasheet for test 1dB



Turn on Switching Speed



Turn off Switching Speed



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