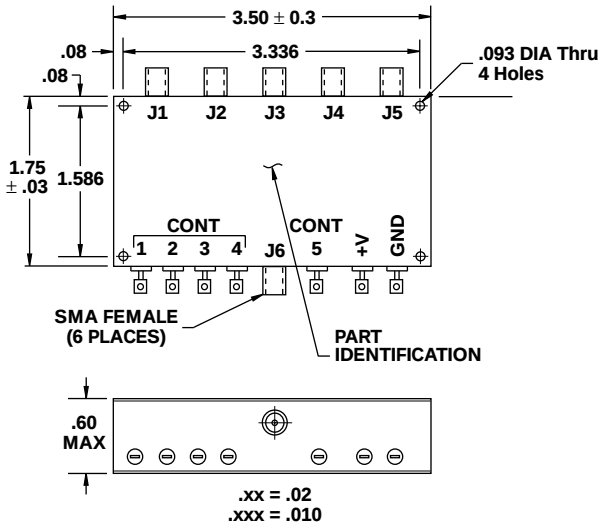
SP5T

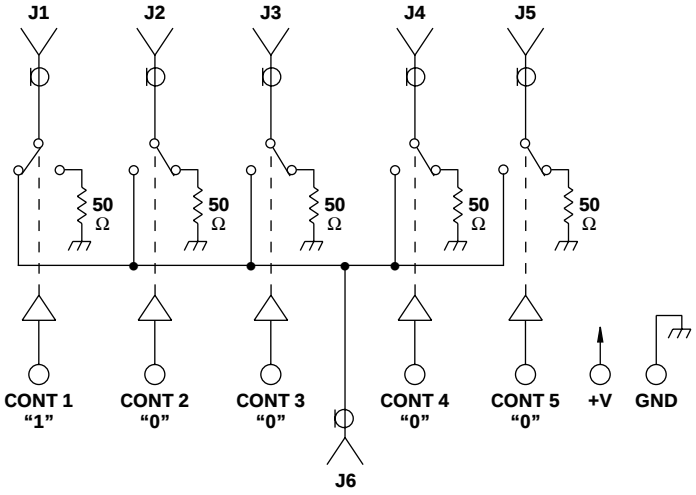
FEATURES

- **15 - 1000 MHz**
- **2.4 mA, +15 VDC**
- **High Isolation**
- **+38 dBm 3rd Order Intercept**
- **Non-Reflective**
- **CMOS Driver**
- **SMA Connectors**

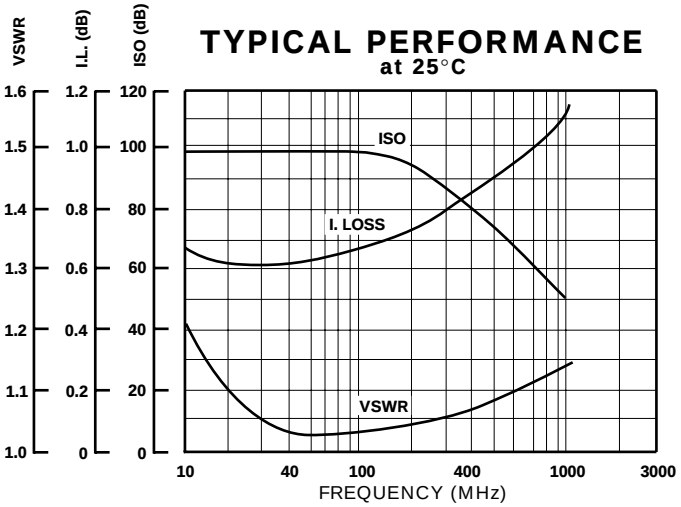
MODEL NO. 100C1295

High Isolation PIN Diode SP5T





TYPICAL PERFORMANCE
at 25°C



GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	15		1000	MHz	
DC Current			3	mA	At +10 VDC Supply
					To +15 VDC Supply
Control Type		CMOS			5 Line
					Logic "0" = Isolation
					Logic "1" = Thru
Control Current *High*			±10	µA	VIH = +V
Low			±10	µA	VIL = 0 V
Insertion Loss		0.7	0.9	dB	15 - 200 MHz
		0.9	1.2	dB	200 - 500 MHz
		1.1	1.5	dB	500 - 1000 MHz
Isolation	90	97		dB	15 - 100 MHz
	85	92		dB	100 - 200 MHz
	75	81		dB	200 - 400 MHz
	60	68		dB	400 - 800 MHz
	50	60		dB	800 - 1000 MHz
VSWR		1.12/1	1.2/1		20 - 800 MHz
		1.15/1	1.5/1		15 - 1000 MHz
Impedance		50		OHMS	
Switching Speed			20	µSEC	50% Control to 90% / 10% RF
Transition (Rise/Fall) Time		1.5		µSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients		1		V	Peak Value
Intercept Points *2nd*		+61		dBm	20 MHz
		+78		dBm	87 MHz
		+88		dBm	150 MHz
3rd		+38		dBm	20 MHz
		+45		dBm	87 MHz
		+50		dBm	150 MHz
RF Power *Operate*			+8	dBm	15 - 20 MHz
			+13	dBm	20 - 40 MHz
			+20	dBm	40 - 80 MHz
			+22	dBm	80 - 100 MHz
Operating Temperature	-55	+25	+85	°C	TA