

CP4-30206055-A1

20 to 40 GHz PIN Diode SP4T Switch, Absorptive

Description

Model CP4-30206055-A1 is a wideband, single pole four throw, absorptive PIN diode switch fabricated in AlGaAs monolithic technology and incorporating a TTL compatible driver. Its primary function is to switch signals in the frequency range 20 to 40 GHz from one 50 Ω channel to others. The switch is activated by a TTL signal applied to the control connector.

The SP4T switch is in a compact 1.5" x 1.0" x 0.75" connectorized package, and its excellent isolation, low insertion loss, broadband and fast switching features make it a perfect switch of choice for RF engineers.

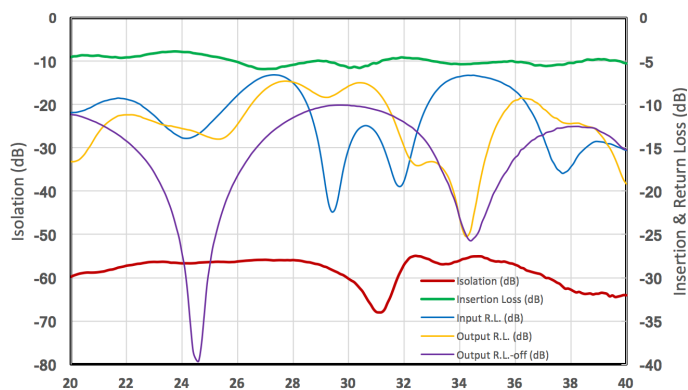
Features

- Low insertion loss/high isolation
- Nanoseconds-fast switching
- Terminated on "OFF"
- Applicable down to 5 GHz

Applications

- Test instrumentation
- Telecommunication
- Wireless 5G technology

Performance Chart

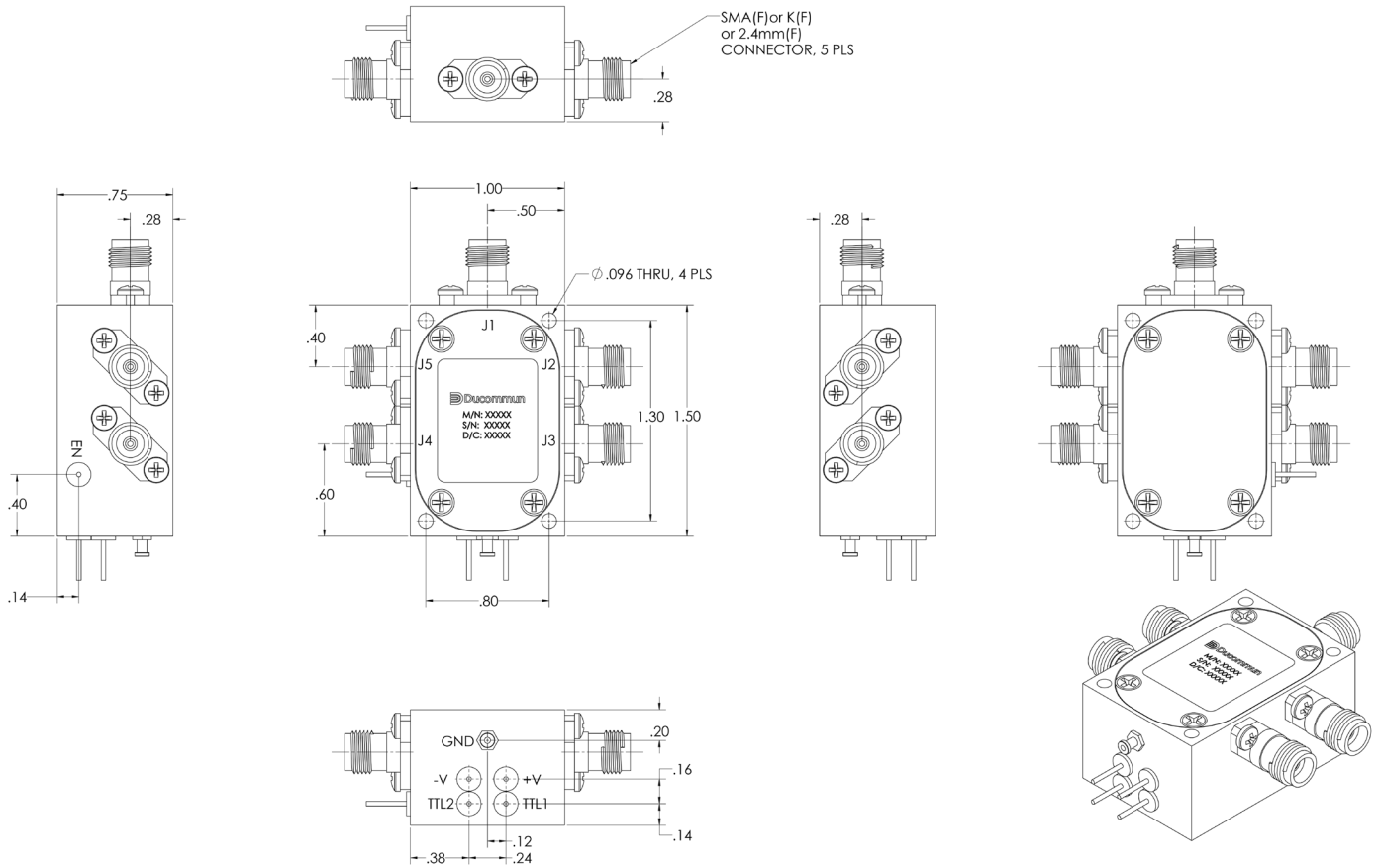


Specifications

Frequency:	20 to 40 GHz
Insertion loss:	6.0 dB maximum
Isolation:	55 dB minimum
I/O VSWR:	2.0 : 1 typical
Control:	TTL
I/O connectors:	K (F)
Outline:	WT-H-15
Switching speed:	200 nS maximum
RF power handling:	+23 dBm CW
Temperature range:	-55 to +85 °C
DC bias:	+5.0 VDC/150mA typical -12.0 VDC/50mA typical

Outline

Dimensions are in inches



Control Logic

TTL 1	TTL 2	J1-J2	J1-J3	J1-J4	J1-J5
Low	Low	Through	Isolation	Isolation	Isolation
Low	High	Isolation	Through	Isolation	Isolation
High	Low	Isolation	Isolation	Through	Isolation
High	High	Isolation	Isolation	Isolation	Through