



## 50 Ohm SMA Circulator Operating From 1.7 GHz to 2.2 GHz And 10 Watts With 18 dB Isolation

### TECHNICAL DATA SHEET

PE8414

Pasternack's RF Circulators and Isolators are available in high and low power versions with SMA or N-type connectors. These Circulators and isolators have a minimum isolation of 18 dB and power ratings from 10 to 1,000 Watts. The frequency range coverage is between 380 MHz and 2.2 GHz covering LTE, AWS, PCS and WiMax frequency bands. VSWR is <1.3:1 and the insertion loss maximum is 0.35 dB

- Designs available from 380 MHz to 2.2 GHz covering Tetra, LTE, AWS, PCS, ISM and WiMax Bands
- Isolators provide added protection to amplifiers and transmitters connected to high mismatch circuits
- Circulators are perfect for duplexer applications requiring at least 18 dB of isolation between transmit and receive ports
- Circulators, in combination with a higher wattage termination, are usable for higher power isolator protection

#### Configuration

Connector 1	SMA Female
Connector 2	SMA Female
Connector 3	SMA Female
Frequency Range	1.7 GHz to 2.2 GHz
Design	Circulator

#### Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.7		2.2	GHz
Impedance		50		Ohms
Forward Power			10	Watts
Reverse Power			10	Watts
Input VSWR			1.25:1	
Isolation	18			dB

#### Mechanical Specifications

##### Temperature

Operating Range -20 to 65 deg C

##### Size

Length 2.5 in [63.5 mm]  
 Width 2.5 in [63.5 mm]  
 Height 1.02 in [25.91 mm]

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant Yes

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Circulator Operating From 1.7 GHz to 2.2 GHz And 10 Watts With 18 dB Isolation PE8414](#)

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.





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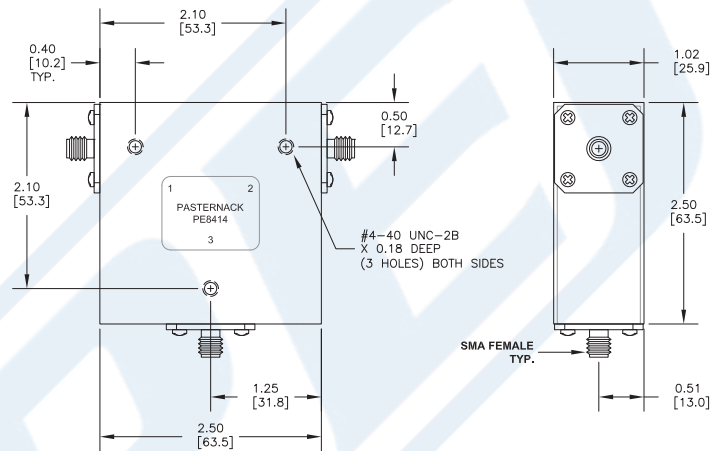
PE8414

#### Plotted and Other Data

Notes:

- Values at 25 °C, sea level

#### Outline Drawing



50 Ohm SMA Circulator Operating From 1.7 GHz to 2.2 GHz And 10 Watts With 18 dB Isolation from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Circulator Operating From 1.7 GHz to 2.2 GHz And 10 Watts With 18 dB Isolation PE8414](http://www.pasternack.com/50-ohm-sma-circulator-1.7-2.2-ghz-10-watts-18-db-pe8414-p.aspx)

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