



50 Ohm SMA Mixer Operating From 6 GHz to 18 GHz With an IF Range From 6 GHz to 18 GHz And LO Power of +10 dBm

TECHNICAL DATA SHEET

PE8654

**Configuration**

Design	Double Balanced
RF Connector	SMA Female
RF Connector Impedance	50 Ohms
LO Connector	SMA Female
LO Connector Impedance	50 Ohms
IF Connector	SMA Female
IF Connector Impedance	50 Ohms

**Electrical Specifications**

RF Frequency Range, GHz	6 to 18
LO Frequency Range, GHz	6 to 18
IF Frequency Range, GHz	1.5 to 8
Maximum RF to LO Isolation, dB	20
Maximum LO to IF Isolation, dB	20
Maximum RF Connector Power, dBm	+25.4
Maximum LO Connector Power, Watts	10
Maximum DC Bias Current, Amps	0.25
1dB Compression Point, dBm	4
Input Two-Tone 3rd Intercept Point, dBm	14

**Mechanical Specifications**

**Temperature**

Operating Range, deg C	-55 to +125
Storage Range, deg C	-65 to +150

**Size**

Length, in [mm]	1.55 [39.37]
Width/Dia., in [mm]	0.31 [7.87]
Height, in [mm]	0.965 [24.51]

Body Material and Plating Passivated Stainless Steel

**RF Connector**

Type	SMA Female
Body Material and Plating	Passivated Stainless Steel

**LO Connector**

Type	SMA Female
Body Material and Plating	Passivated Stainless Steel

**IF Connector**

Type	SMA Female
Body Material and Plating	Passivated Stainless Steel

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 Mixer Operating From 6 GHz to 18 GHz With an IF Range From 6 GHz to 18 GHz And LO Power of +10 dBm PE8654](#)

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. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.





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**DC Bias Connector**  
Type

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

Not RoHS Compliant

REACH Compliant

06/18/2012

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- Peak input power for any single port: +500mW Peak 1uS PulseWidt, 0.1%DC

50 Ohm SMA Mixer Operating From 6 GHz to 18 GHz With an IF Range From 6 GHz to 18 GHz And LO Power of +10 dBm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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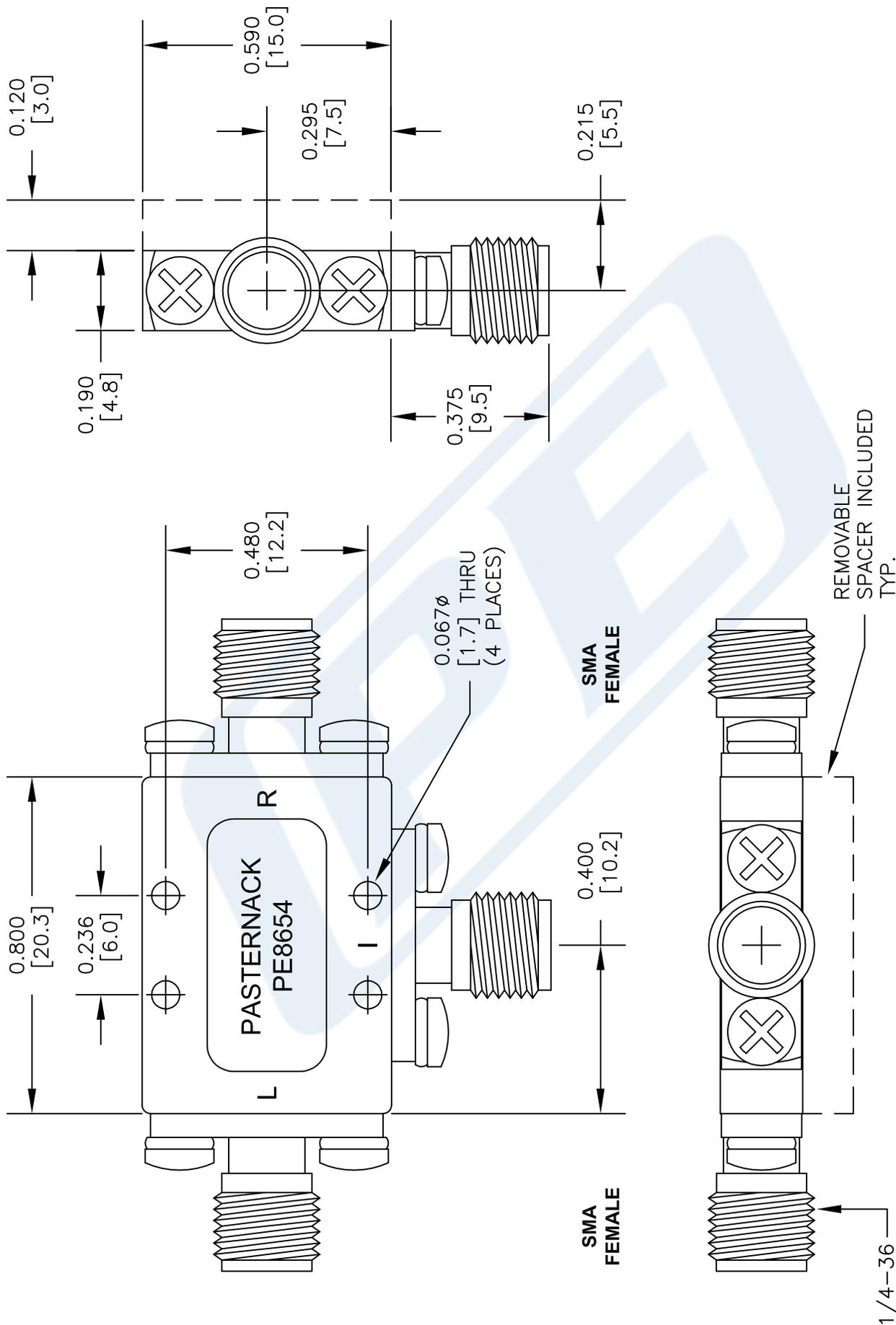
URL: <http://www.pasternack.com/sma-female-double-balanced-mixer-rf-60-180-ghz-pe8654-p.aspx>

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# PE8654 CAD Drawing

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DWG TITLE

**PE8654**

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES (mm).

FSCM NO. 53919

CAD FILE 020315

SCALE N/A

SIZE A

150

**PE PASTERNAK**  
 THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com