

180 Degree SMA Hybrid Coupler from 1.4 GHz to 6 GHz Rated to 30 Watts

Hybrids Technical Data Sheet

Features

- 180° Phase Shift Between Output Ports
- High power handling of 30 Watts CW
- 1.4 to 6 GHz Frequency Range
- VSWR 1.2:1 Typical
- High Isolation of 22 dB Minimum

Applications

- Test and Measurement
- Commerical Communications
- · Military Communications

SATCOM

Wireless Communications

Low 1.2 dB Insertion Loss Typical

Stable performance over Operating Temperature

SMA Female Connectors

Range

Description

The PE2CP1154 is a high power 180 degree hybrid coupler that operates from 1.4 to 6 GHz and can handle 22 Watts (CW) with 22 dB isolation minimum and 1.3:1 VSWR maximum. The package interface uses SMA Female connectors.

The PE2CP1154 is part of Pasternack's family of 180 degree hybrid couplers that offer excellent performance featuring high isolation, low insertion loss and VSWR while maintaining great amplitude/phase balance over the entire operating frequency range. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, phased array radar, and any application that requires even power distribution with a 180 degree difference in phase.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.4		6	GHz
Impedance		50		Ohms
Phase Difference		180		Degrees
Coupling		3		dB
Insertion Loss		1.2	1.8	dB
Isolation	22	30		dB
VSWR		1.2:1	1.3:1	
Amplitude Balance		±0.4	±0.1	dB
Phase Balance		5	7	Degrees
Input Power (CW)			30	Watts
Input Power (Peak)			300	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 180 Degree SMA Hybrid Coupler from 1.4 GHz to 6 GHz Rated to 30 Watts PE2CP1154

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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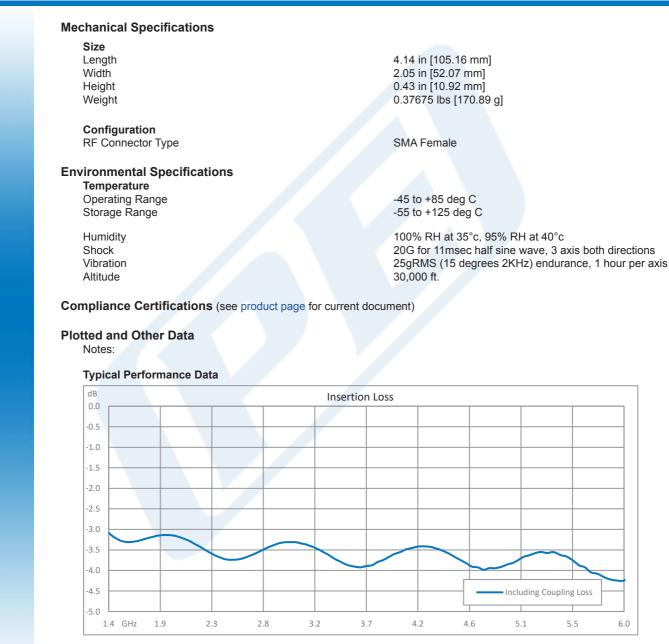


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Degrees Phase Balance 230 220 210 200 190 180 170 160 150 140 130 1.4 GHz 1.9 2.3 2.8 3.2 3.7 4.2 4.6 5.1 5.5 6.0

180 Degree SMA Hybrid Coupler from 1.4 GHz to 6 GHz Rated to 30 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-coupler-6-ghz-pe2cp1154-p.aspx

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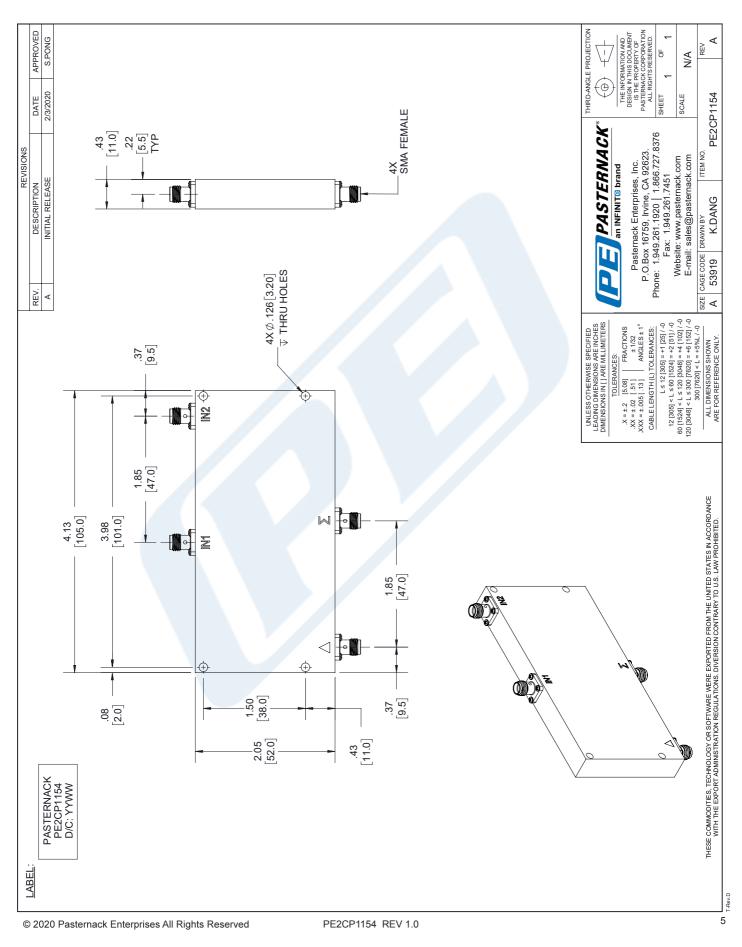
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PE2CP1154 CAD Drawing

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