PASTERNACK®
THE ENGINEER'S RF SOURCE



WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET PEWCP1073

The PEWCP1073 is a WR-137 crossguide waveguide coupler that operates in the frequency range of 5.85 to 8.2 GHz. This Waveguide component has a typical VSWR of 1.05:1. These designs are made of painted copper alloy and incorporate a cross wall configuration that result in a mid-band nominal coupling value of 20, 30, 40 or 50 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the main transmission line. This WR-137 waveguide coupler uses standard UG-344/U square cover flanges. Pasternack offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.

Features

- Crossguide Waveguide Coupler
- 40 dB Nominal Coupling Level
- 5.85 GHz to 8.2 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR

Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	5.85		8.2	GHz
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		40		dB

Mechanical Specifications

Size

Length	5 in [127 mm]
Width/Dia.	5 in [127 mm]
Weight	3 lbs [1.36 Kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz PEWCP1073

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

ISO 9001 : 2008 Registered

© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET PEWCP1073

Configuration

Design	Crossguide
Size	WR-137

Description	Input Flange	Output Flange	Coupled Flange(s)
Flange Type	Round Cover	Round Cover	Round Cover
Flange Designation	UG-344/U	UG-344/U	UG-344/U
Material	Copper Alloy	Copper Alloy	Copper Alloy

Compliance Certifications (visit www.Pasternack.com for current document)

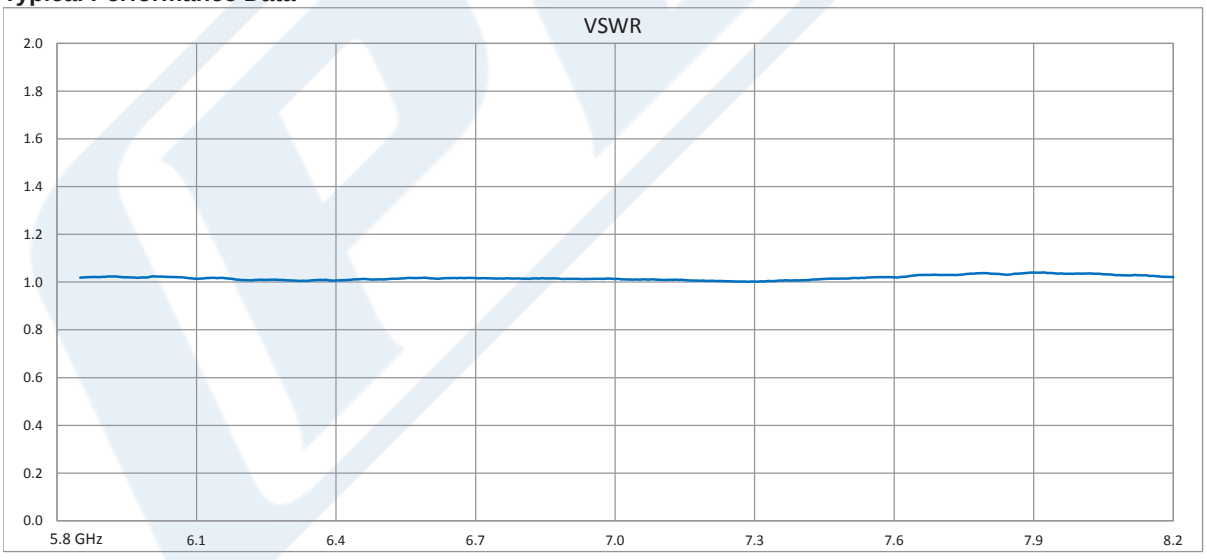
RoHS Compliant
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz PEWCP1073

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

ISO 9001 : 2008 Registered

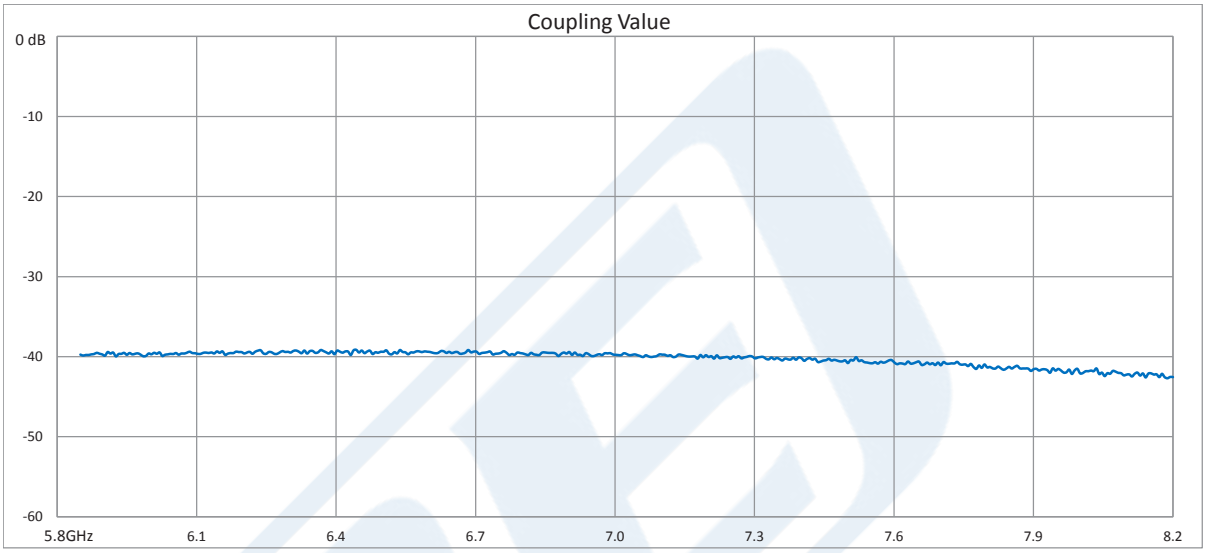
© 2016 Pasternack Enterprises All Rights Reserved

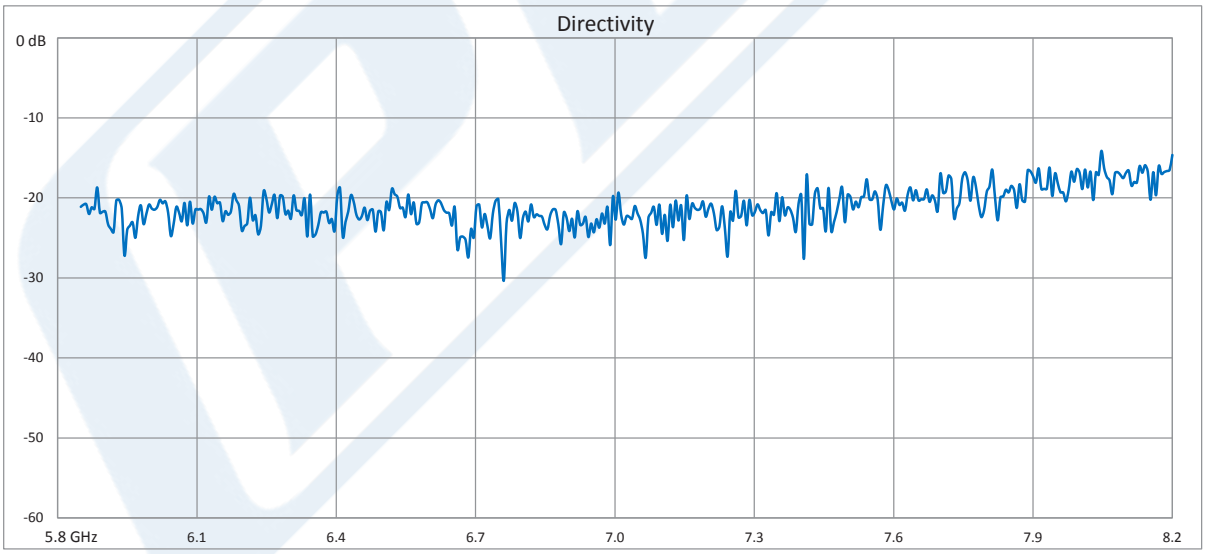
PASTERNACK®
THE ENGINEER'S RF SOURCE



WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET PEWCP1073





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz PEWCP1073

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

ISO 9001 : 2008 Registered

© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET PEWCP1073

WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U Round Cover Flange, 5.85 GHz to 8.2 GHz PEWCP1073

URL: http://www.pasternack.com/wr137-40db-waveguide-coupler-ug344-round-crossguide-pewcp1073-p.aspx

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.

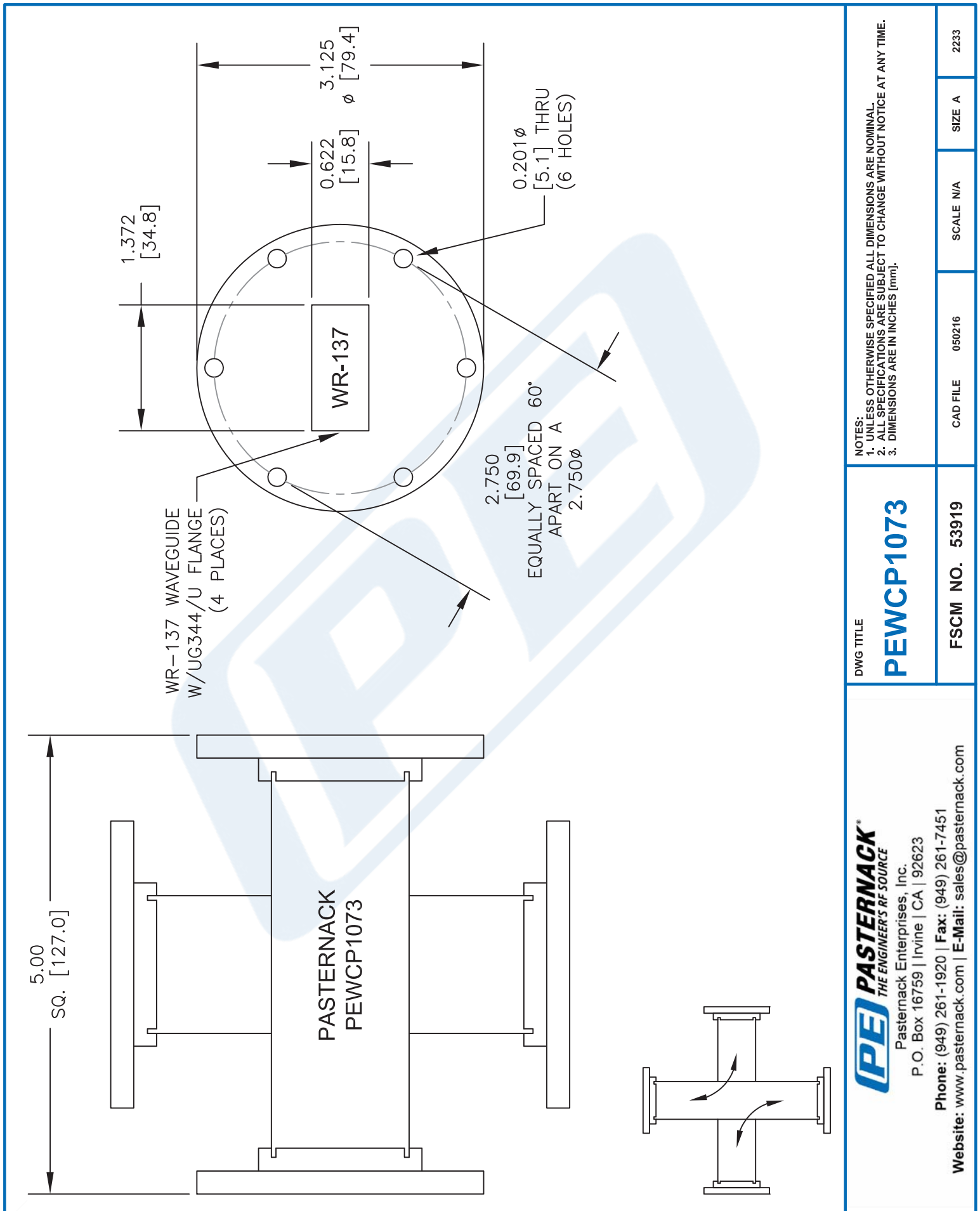
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2016 Pasternack Enterprises All Rights Reserved

PEWCP1073 CAD Drawing

WR-137 40 dB Waveguide Crossguide Coupler, UG-344/U
Round Cover Flange, 5.85 GHz to 8.2 GHz



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].

CAD FILE	SCALE	SIZE	
050216	N/A	A	2233

DWG TITLE: **PEWCP1073**

FSCM NO. 53919

PASTERNACK
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

© 2016 Pasternack Enterprises All Rights Reserved