SWY-74384355-12-I1-WPC

Brass

3.5 Oz

Silver Plated

WY-IE-PV1

Mechanical Specifications:

Item

Material

Finish

Weight

Size Outline

E Band Diplexer, 71 to 86 GHz

SWY-74384355-12-I1-WPC is an E band waveguide diplexer with a low passband of 71 to 76 GHz and a high passband of 81 to 86 GHz. The nominal insertion loss of the diplexer is 0.5 dB and the minimum isolation is 55 dB. Since both low and high passband frequencies can be changed by modifying the design, custom designs are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Low Passband			
Passband Frequency	72 GHz		76 GHz
Passband Insertion Loss		0.7 dB	
Rejection Frequency	81 GHz		86 GHz
Rejection		55 dB	
Return Loss		15 dB	
Group Delay Variation			150 ps
High Passband			
Passband Frequency	82 GHz		87 GHz
Passband Insertion Loss		0.7 dB	
Rejection Frequency	71 GHz		76 GHz
Rejection		55 dB	
Return Loss		15 dB	
Group Delay Variation			150 ps
Power Handling		1 W (CW)	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Waveguide Ports WR-12 Waveguide with UG-387/U Compatible Flanges

2.83" (L) x 0.75" (W) x 0.39" (H)

Specification

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FEATURES

ECCN EAR99

- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

- Last Mile Communication
 Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS



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Typical Lowpass Insertion and Return Loss vs. Frequency

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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

CAUTION:

 If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

MAKING MILLIMETERWAVE ACCESSIBLE