

POWER DIVIDER 3 WAY 35 WATT

HybriX®



DATA SHEET

PART SERIES: P3S35J

SHEET 1 OF 2
Dwg P3S35J

EN 13-3674
Revision -

FEATURES

- Products available for 3G and 4G bands
- Surface mountable
- Small footprint
- High power handling
- Low insertion loss
- Excellent isolation and low VSWR
- Alumina construction

APPLICATIONS

- LTE, AWS, UMTS, GSM, and PCS base stations
- Antenna feed network
- Modulators
- Signal distribution nodes
- Combiners and splitters

GENERAL DESCRIPTION

Hybrix Wilkinson SMT Power Dividers are high power in-phase devices capable of combining and dividing 2-, 3-, and 4-way signals. The devices provide excellent isolation and low VSWR in a small surface mount package. Packaging options are tube or tape and reel.



ORDERING INFORMATION

Part Identifier: P3S35L

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Isolation	Insertion Loss	Amplitude Balance	Phase Balance	Power Handling
1.7 – 2.0 GHz	19 dB Min	0.45 dB Max	0.3 dB Max (P1 Input)	7° Max (P1 Input)	35 Watts

VSWR: 1.4:1 Max (All Ports)
Nominal Impedance: 50 OHMS

Ports P2, P3, and P4 Loading Limits
Port 1 Input Power (Watts Continuous Max)

All Ports but one must be under normal load; one and only one of P2 or P3 or P4 may be loaded as follows:

- 35 Watts, Load SWR up to 1.4:1 Max
- 24 Watts, Load SWR up to 1.5:1 Max
- 19 Watts, Load SWR up to 1.6:1 Max
- 14 Watts, Load SWR up to 1.7:1 Max
- 12 Watts, Load SWR up to 1.8:1 Max
- 10 Watts, Load SWR up to 1.9:1 Max
- 9 Watts, Load SWR up to 2.0:1 Max

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C

3.0 MARKING

Hybrix and part number

Note: Specifications are subject to change.

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4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.

Visual and Mechanical Examination for Conformance To Outline Drawing Requirements.
Measure Amplitude Balance and VSWR

Test Data Requirements

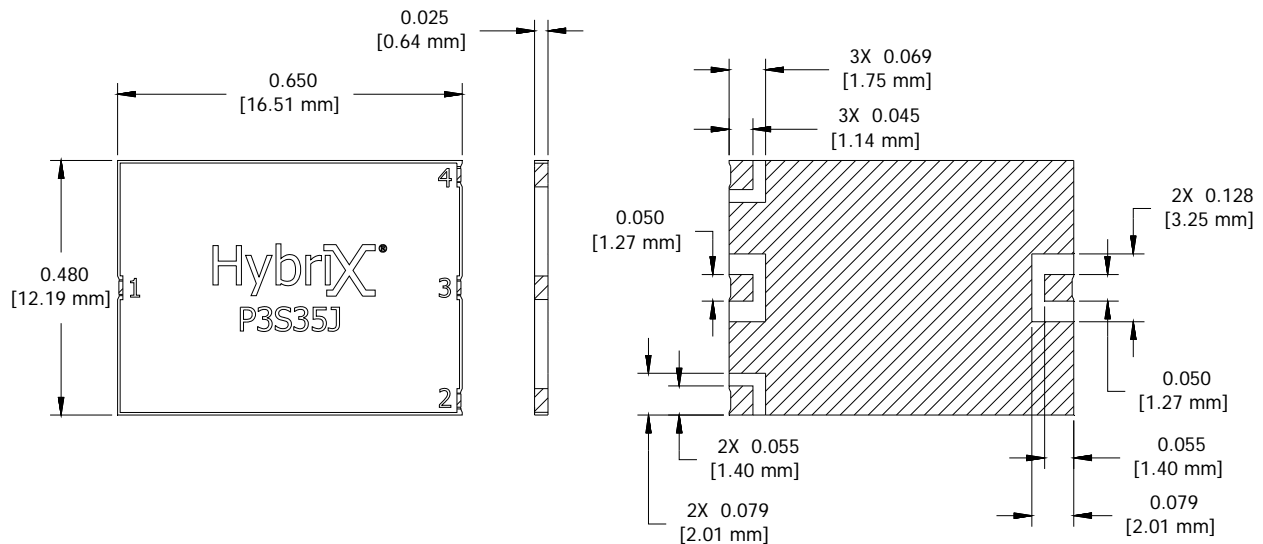
No Test Data Required
Data Retention – 12 months

5.0 PACKAGING

Standard Packaging: Tube

6.0 MECHANICAL

Substrate Material: Alumina
Resistive Film: Thick Film
Terminal Material: Thick Film, Nickel barrier solder plated
Metric Dimensions: Provided for reference only



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005

Note: Specifications are subject to change.