# RADITEK INC.

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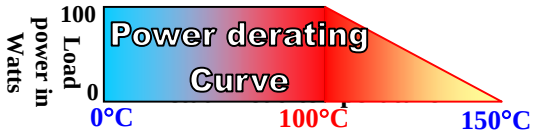
# Dual Stripline HE, 869M to 960 MHz Isolators:

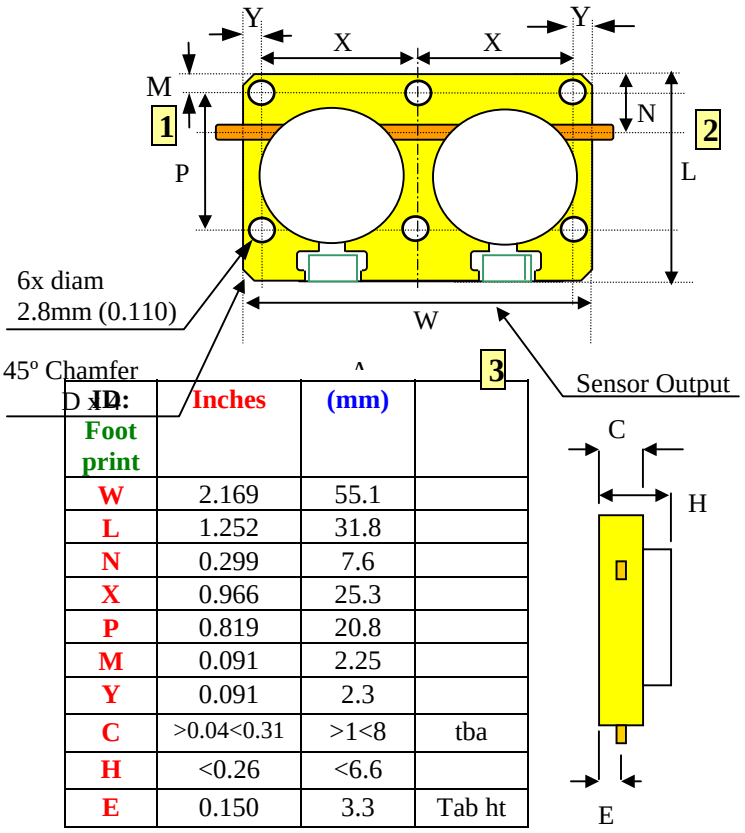
**Performance is guaranteed over Temperature, Minimum Insertion Loss, and Highest Isolation.**

**Examples** of models, order exact frequency requirement:

| Freq. MHz | SIZE | Insertion Loss Max. dB | Isolation Min. dB | RL dB |
|---|---|---|---|---|
| 850-870 | H | 0.5 | 40 | 20 |
| 869-894 | H | 0.5 | 40 | 20 |
| 925-960 | H | 0.5 | 40 | 20 |
| 880-960 | H | 0.5 | 40 | 20 |




| Direction of RF: | |
|---|---|
| R | default → |
| L | ← |




| ID: Foot print | Inches | (mm) | |
|---|---|---|---|
| W | 2.169 | 55.1 | |
| L | 1.252 | 31.8 | |
| N | 0.299 | 7.6 | |
| X | 0.966 | 25.3 | |
| P | 0.819 | 20.8 | |
| M | 0.091 | 2.25 | |
| Y | 0.091 | 2.3 | |
| C | >0.04<0.31 | >1<8 | tba |
| H | <0.26 | <6.6 | |
| E | 0.150 | 3.3 | Tab ht |

Design based on Y10-0013 per Y45-0039

**0rdering information: Example:**
**RI-SS-869-894-HE-110WR**
**Direction: R= Clockwise (default), L= Anti-clockwise**
DI-Lower freq.-Higher freq.-ID-Load power-direction-H

| **General specifications** (designed to meet, but not individually tested to): | | | |
|---|---|---|---|
| Max. Fwd power: | 80 & 60 Watts | | |
| Max. Rev (load) power: | 80 & 60 Watts | Assumes infinite heat sink<br>Load temp to be kept < 85°C | |
| Operating temp. | -10°C to +85°C | | |
| Storage temp. | -10°C to +85°C | | |
| High intermod. Perf.* | -36 dBm | -H | 80 W (49 dBm) CW at port 1<br>0.5 W (27 dBm) CW at port 2<br>frequency distance between both carriers ca. 5 MHz |

| **Specifications of beryllium copper TABS:** | | | | |
|---|---|---|---|---|
| Type | Length | Width | Thickness | Units |
| HE | 0.098 | 0.024 | **0.004** | inches |
| Tol. | **±0.008** | ±0.005 | ±0.001 | |

Machined surface: $^{63}\surd$, Flatness: 0.001 inch
All units are in inches. Tolerance: 0.XX ±0.01,
0.XXX ±0.005 unless otherwise marked.
Steel / Aluminum Construction, Magnetically shielded
Silver / Nickel-plated.

**Standard semi circular strain relief in each lead.**
**Port 1 and 2 (contained within the body of the flange footprint)**

**20 ± 5 mil radius**



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