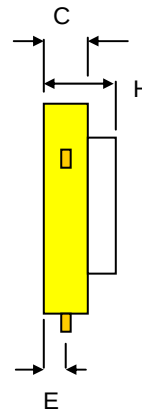
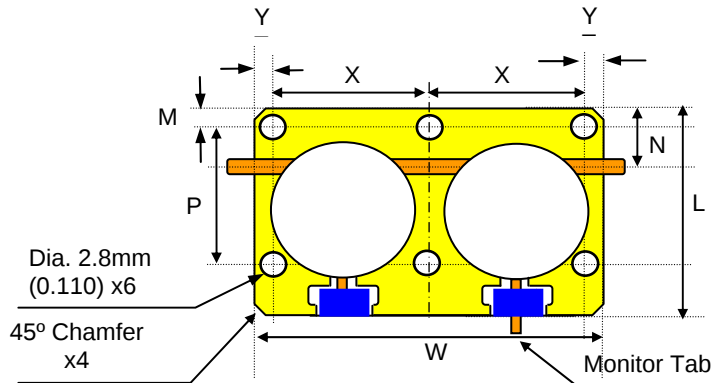


Dual Junction Stripline HE, 810M to 2100MHz Isolators and Circulators

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

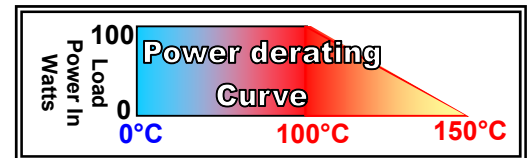


ID:	Foot print	Inches	(mm)
W		2.169	55.1
L		1.252	31.75
N		0.299	7.6
X		0.966	25.3
P		0.819	20.8
M		0.091	2.25
Y		0.091	2.3
C		>0.04<0.31	6.0
H		<0.26	6.3
E		0.150	3.3

Design based on Y10-0013 per Y45-0039

Examples of models, order exact frequency requirement:

Freq. MHz	Model	Insertion Loss Max. dB	Isolation Min. dB	Ret. Loss dB
850-870	HE	0.5	40	20
869-894	HE	0.5	40	20
925-960	HE	0.5	40	20
880-960	HE	0.5	40	20



Tolerance Table Metric (inch)

(unless otherwise stated):

Hole diameter +/- 0.1mm, (+/- 0.004")
Dimensions (w*h) +/- 0.3 mm, (+/- 0.015")
Dimensions (Stripline Tab, +/- 0.1mm, (+/- 0.04")
Dimensions (hole position) +/- 0.1mm, (+/- 0.04")

Machined surfaces

Flatness 0.025/mm, (0.001/ inch)
Bend radius 0.8mm, (0.031" or 1/32")

Direction of RF:	
R	Default →
L	←

Units: Inch (mm)
Not to scale

Order Examples: **RCI-869-894M-HE-110WR**
I=ISOLATOR / C=CIRCULATOR

Description: (Circulator-Isolator, 869-894MHz, HE model, 110 Watts, Clockwise Rotation)

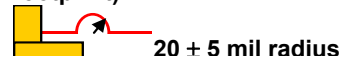
[See Page 2 for Additional Ordering Information](#)

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	

Standard semi circular strain relief in each lead.

Port 1 and 2 (contained within the body of the flange footprint)



General specifications

(designed to meet, but not individually tested to):

Max. Fwd power:	200 Watts	peak power up to 1Kwatts
Max. Rev (load) power:	110 Watts	Assumes infinite heat sink Load temp to be kept < 85°C
Operating temp.	-20 to +85°C	
Storage temp.	-40 to +110°C	

RI, RC-SS-Dual HE models

Specifications may be subject to change

06/24/13

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Dual Junction Stripline HE, 810M to 2100MHz Isolators and Circulators

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

Frequency. MHz	BW %	Model	Insertion Loss Max. dB	Isolation Min. dB	Ret. Loss dB	VSWR	
810-915		HE	0.7	38	18	1.30:1	
824-849		HE	0.5	44	21	1.19:1	
824-894		HE	0.5	40	19.1	1.25:1	-30 to +70°C
825-880		HE	0.6	42	21	1.19:1	
850-870		HE	0.5	44	21	1.19:1	
851-866		HE	0.5	44	21	1.19:1	
869-894	2.8	HE	0.5	44	21	1.19:1	
880-960		HE	0.6	42	21	1.19:1	
935-960		HE	0.5	44	20	1.20:1	
920-960		HE	0.6	45	20	1.20:1	
960-1220		HE	1.2	32	16	1.38:1	
1000-1200		HE	1.0	40	19.1	1.25:1	
1501-1516		HE	0.4	45	21	1.19:1	
1700-2100		HE					
1805-1880		HE	0.6	45	20	1.20:1	
1850-1995		HE	0.6	40	19.1	1.25:1	-30 to +70°C
1930-1990		HE	0.6	45	20	1.20:1	

*Out of band specs

Load Option

If one load option is shown

i.e., 110w (load) or 100w-A20 attenuator, will be on both Isolator load ports

If two load options shown (RII model only)

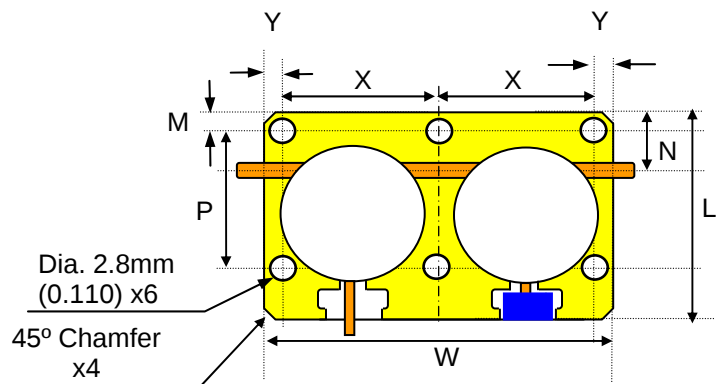
i.e., 100W-A-20// 110W
Fit 100W-A20 Attenuator on Left
And 110W Load on Right

Direction

If one option shown
i.e., R clockwise make both units clockwise
If two options shown
i.e., 110WR//110WL, makes **left** unit **clockwise**
and **right** unit **counter clockwise**

Order Examples: RCI-869-894M-HE-110WR

Description: (Circulator-Isolator, 869-894MHz, HE model, 110 Watts, Clockwise Rotation)



RII	Isolator / Isolator
RIC	Isolator / Circulator
RCI	Circulator / Isolator (Shown above)
RCC	Circulator / Circulator

RI, RC-SS-Dual HE models

Specifications may be subject to change

06/24/13

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