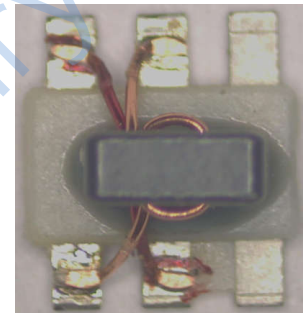


Features::

H2TCP-2-33W+

- ◆ 50Ω Characteristic Impedance
- ◆ Frequency: 50to4000MHz
- ◆ Power Input(as a splitter): 0.50W Max
- ◆ DC current: 30mA
- ◆ Operating temperature range: -40°C to +85°C
- ◆ Storage temperature range: -55°C to +100°C



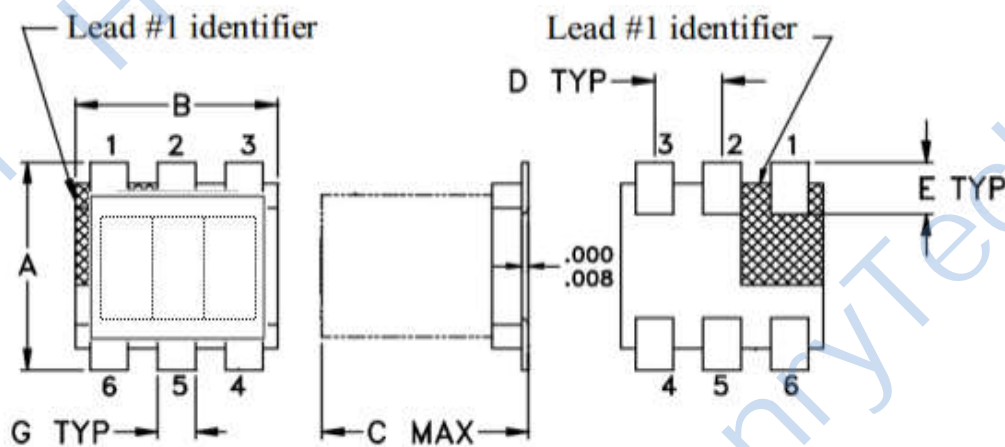
50-4000MHz

50 2 Way-0° Power Divider

Applications:

- ◆ For CATV broadband applications
- ◆ For VHF/UHF receivers/transmitters and push-pull amplifiers

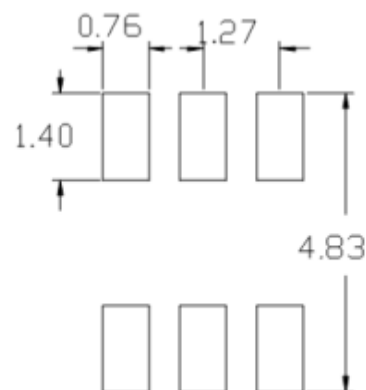
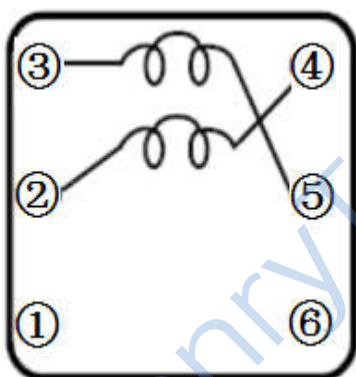
Dimension Diagram (Unit:±0.20mm) :



$A=4.20\pm 0.20$   $B=3.80\pm 0.20$   $C=2.80\pm 0.20$   $D=1.27\pm 0.05$   $E=1.00\pm 0.05$

Electrical structure:

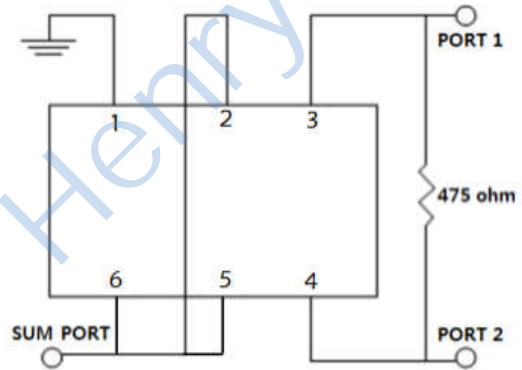
Recommended layout:



**Pin configuration:**

SUM PORT	6,5,2
PORT 1	3
PORT 2	4
GROUND	1
EXT. RESISTOR 475Ω	3,4

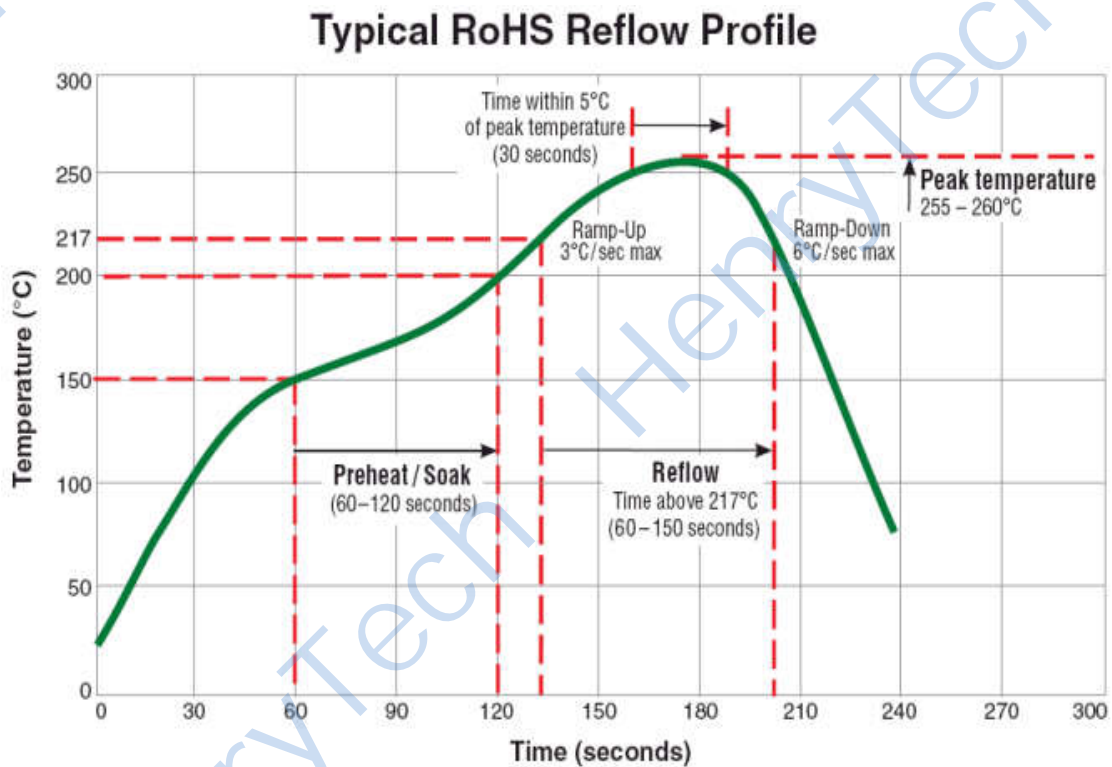
**Application circuit :**



**Electrical Specifications: TA=25°C, 0dBm, Z0=50Ω**

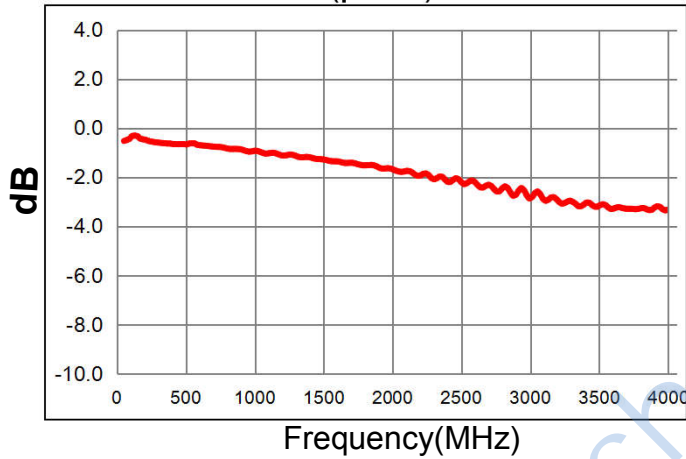
Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss(out1)	50-4000MHz	dB	—	3.0	5.5
Main line Loss(out2)	50-4000MHz	dB	—	2.5	5.0
Amplitude balance	50-4000MHz	dB	—	1.0	1.5
Phase Balance	50-4000MHz	dB	—	8.0	12.0
Output 1 SWR	50-4000MHz	dB	—	2.0	3.5
Isolation	50-4000MHz	dB	10.0	20.0	—

**Recommended Soldering Temperature Graph:**

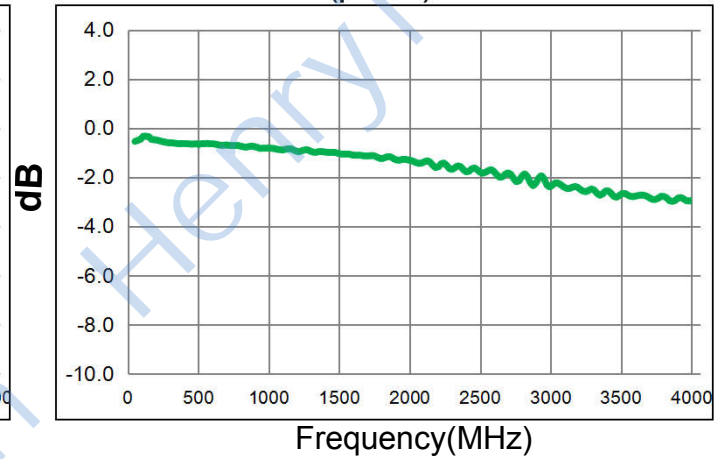


## Power Splitter/Combiner

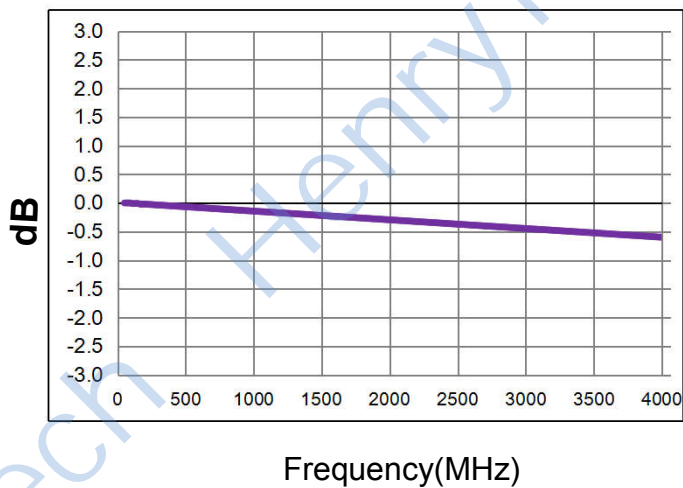
Main line Loss(port1)



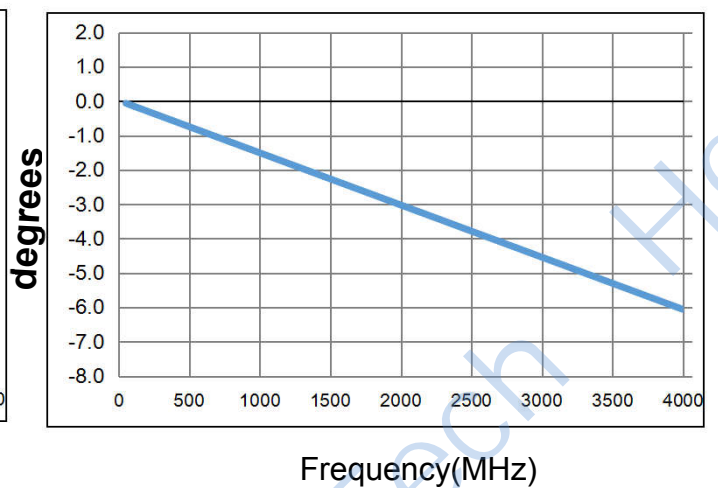
Main line Loss(port2)



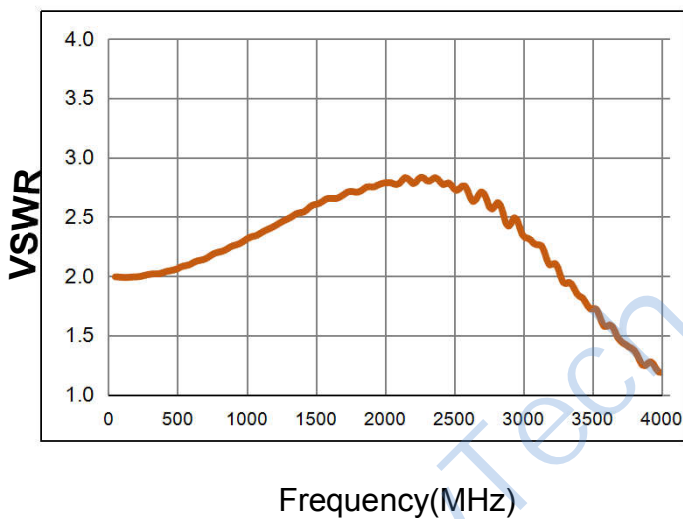
Amplitude balance



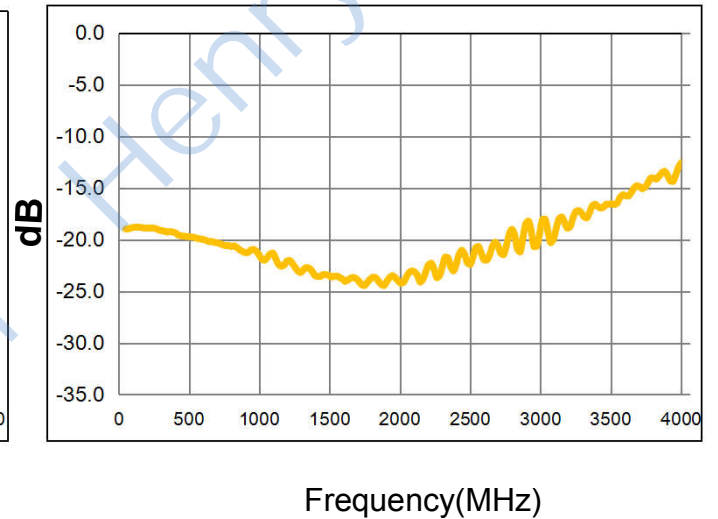
Phase Balance



VSWR(Port S)



Isolation



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