



three 1.5V AA batteries

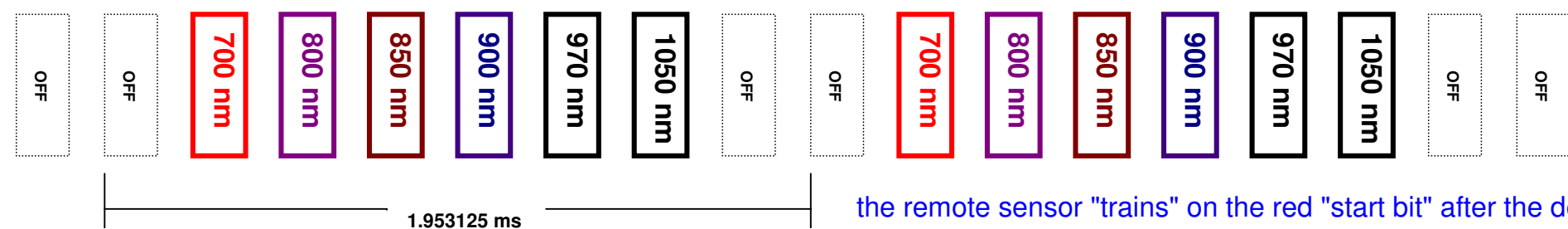
An AA alkaline battery yields a nominal capacity of 2850 mAh

$14V \cdot 50mA \cdot 0.75 = 525mW$ load
 $525mW / 0.9 = 583mW$ DC-DC input
 $600mW / 4.5V = 133mA$ battery current
 $2850mAh / 133mA = 21.375h$ battery life

32.768 kHz 5 ppm oscillator

LEDs from
Shenzhen Yingfeng Opto-Electronic Co., Ltd

- YFL302G14IC0838-700
- YFL302L14IC0838-800
- YFL302E14IC0838-850
- YFL302L14IC0838-900
- YFL302L14IC0838-970
- YFL302E14IC0838-1050



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P.L.McGuire 23 January 2025

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Item
FAB 914363B

Item
4 ea M3 screw

title
IRS21 Tester Emitter

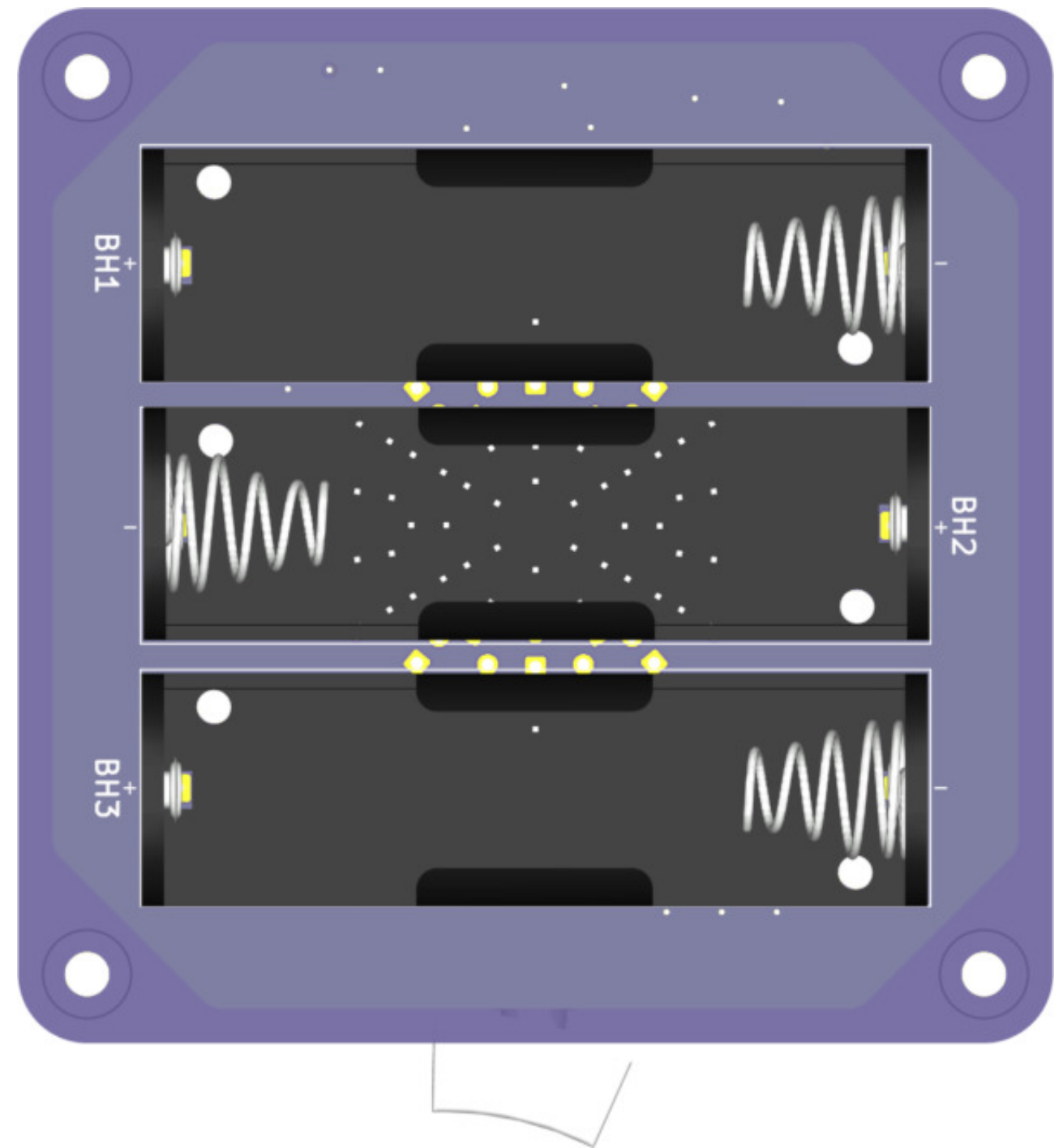
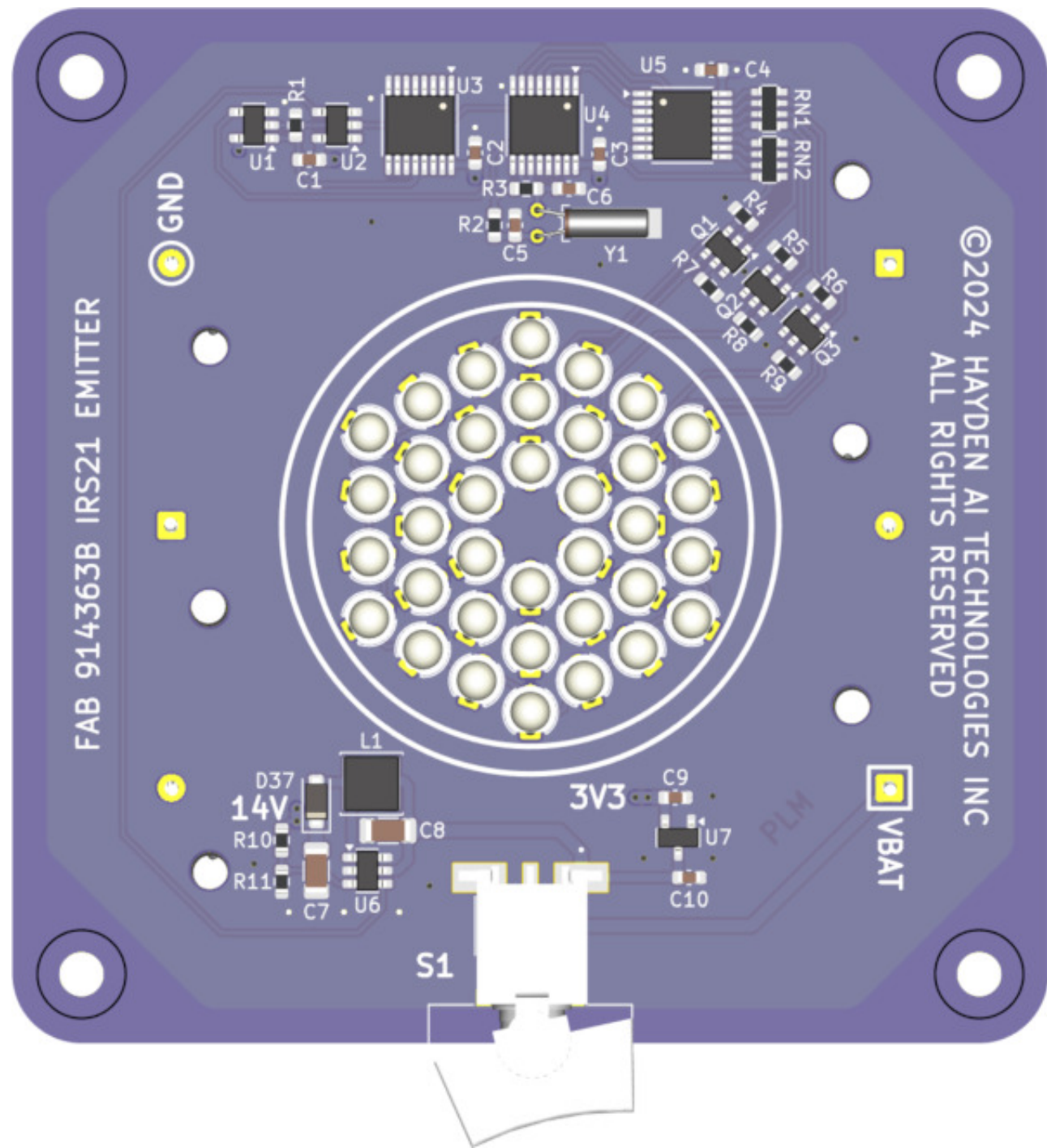
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Thursday, January 23, 2025

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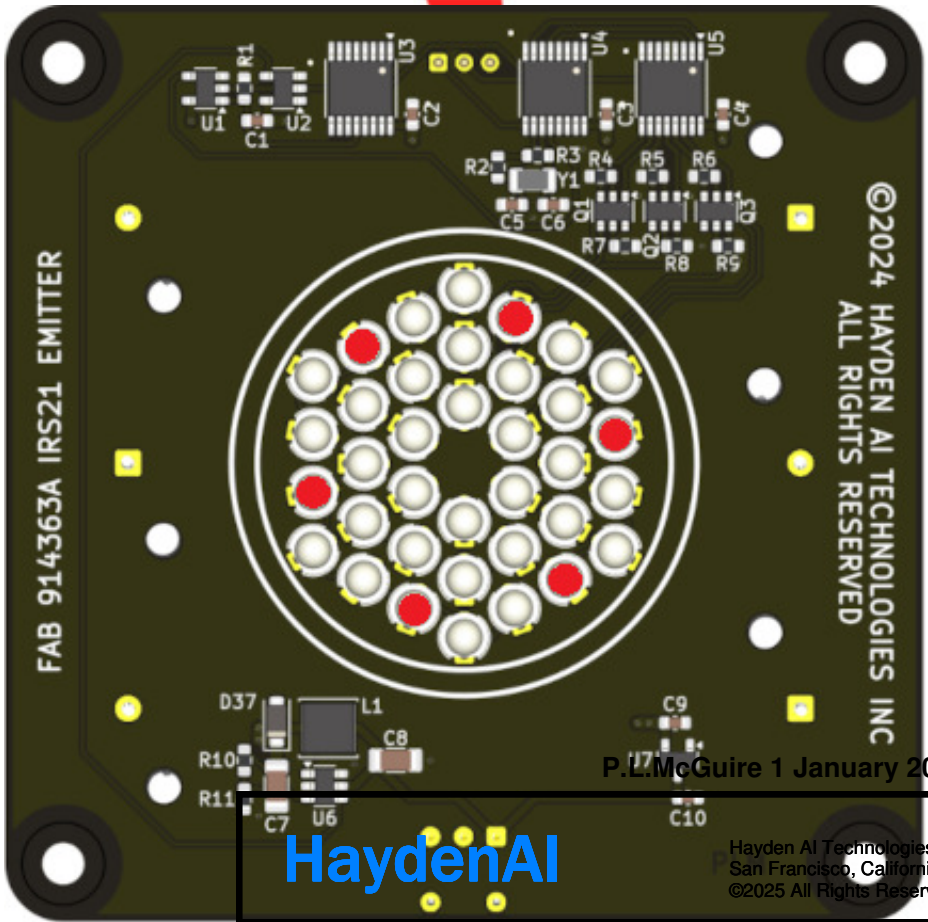
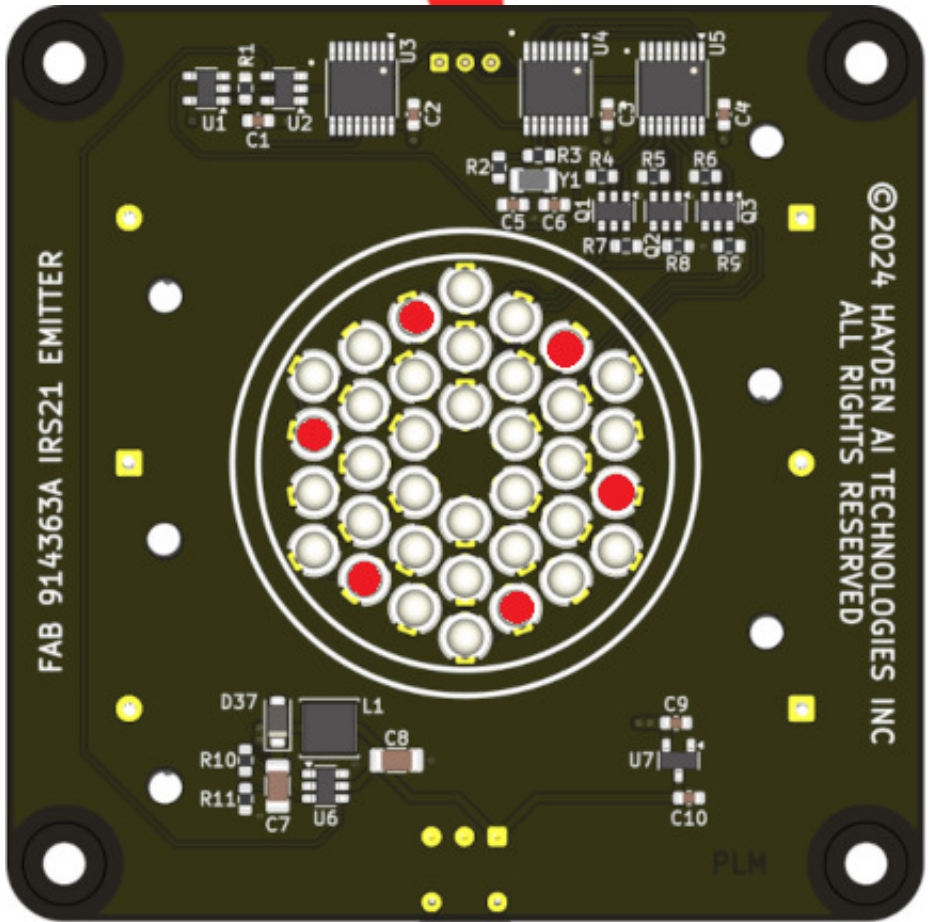
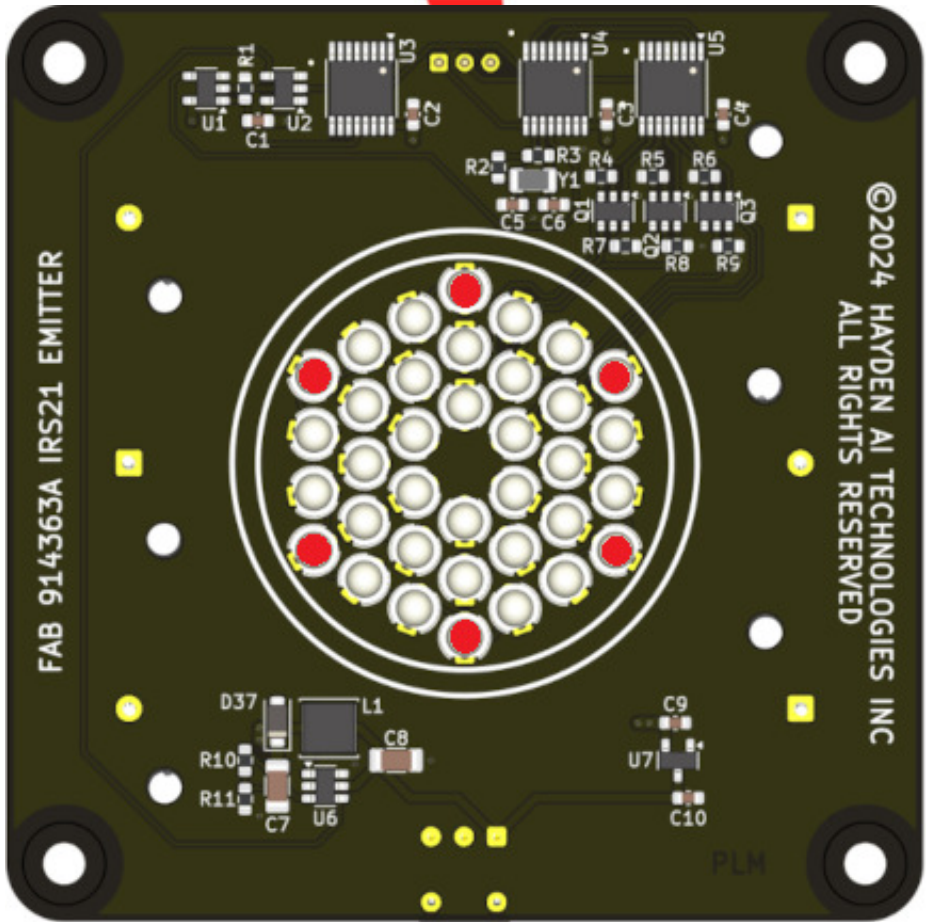
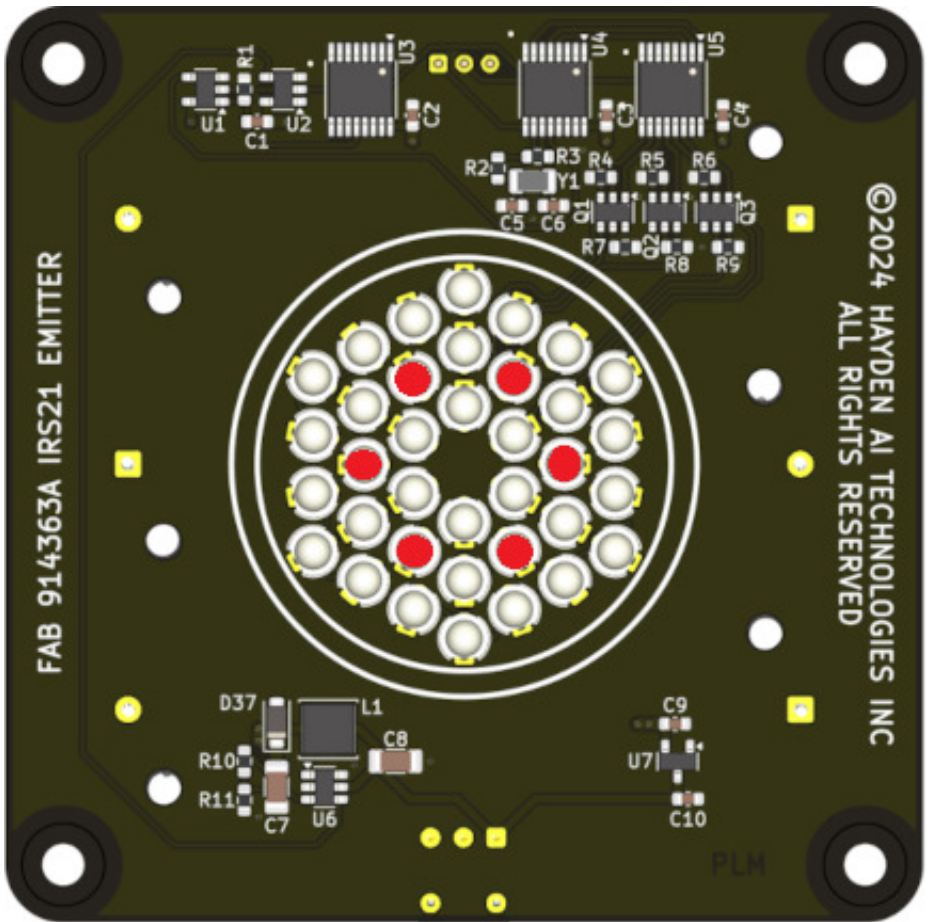
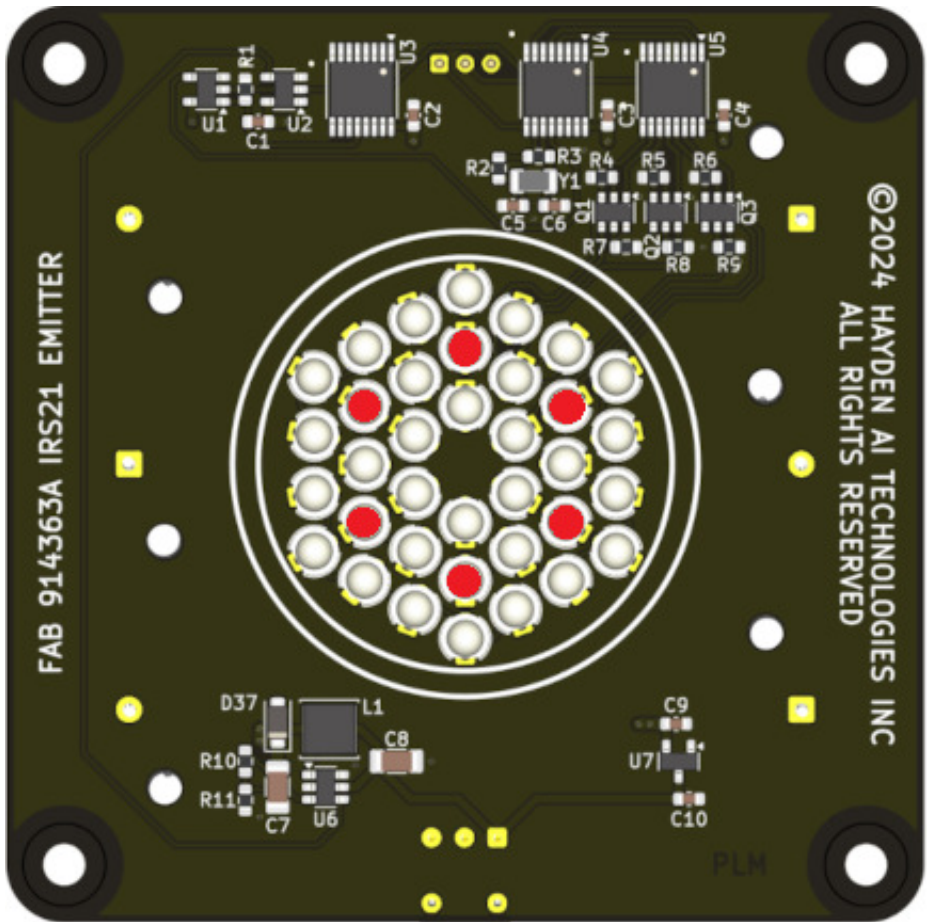
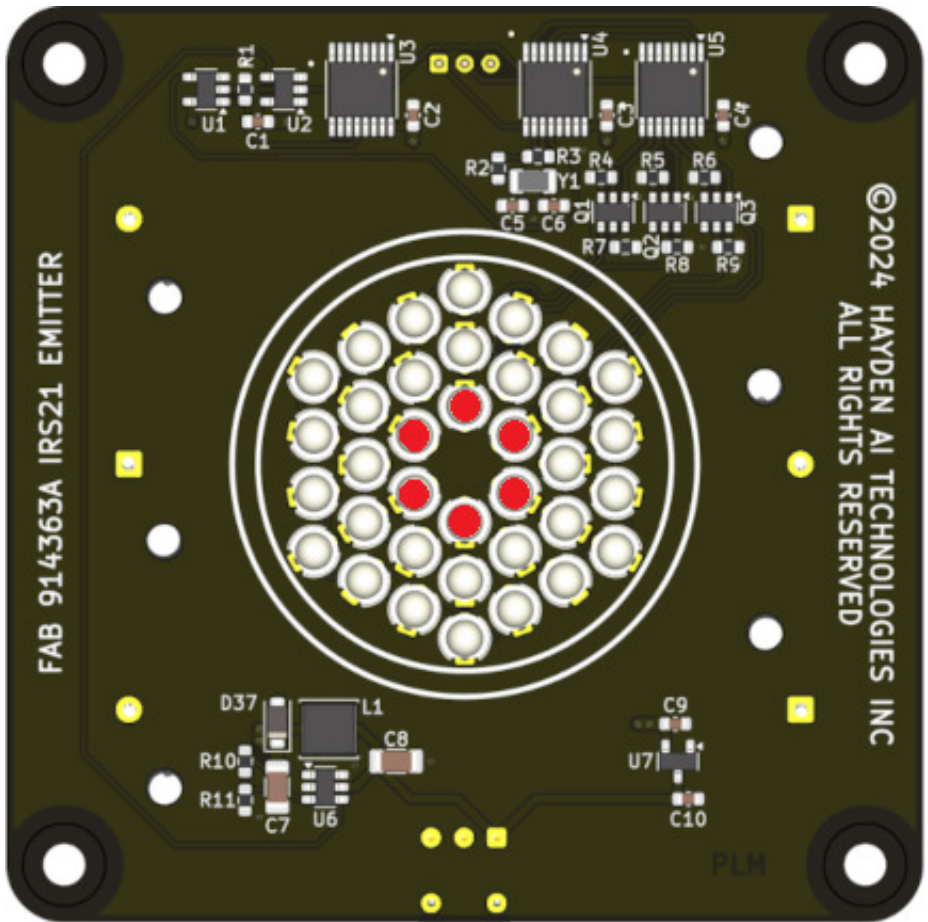
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rev-A PCB shown

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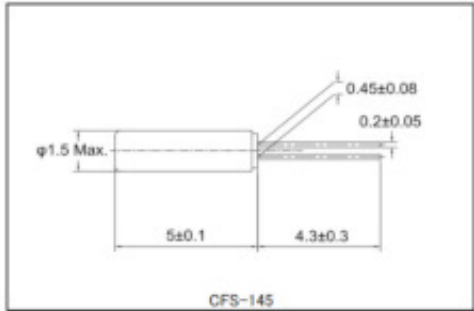
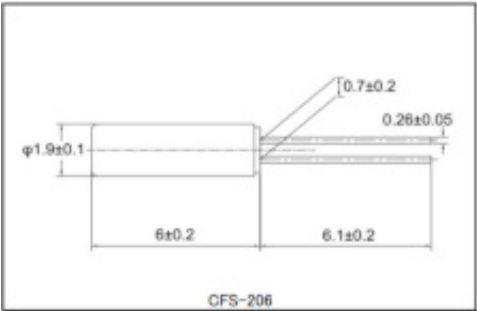
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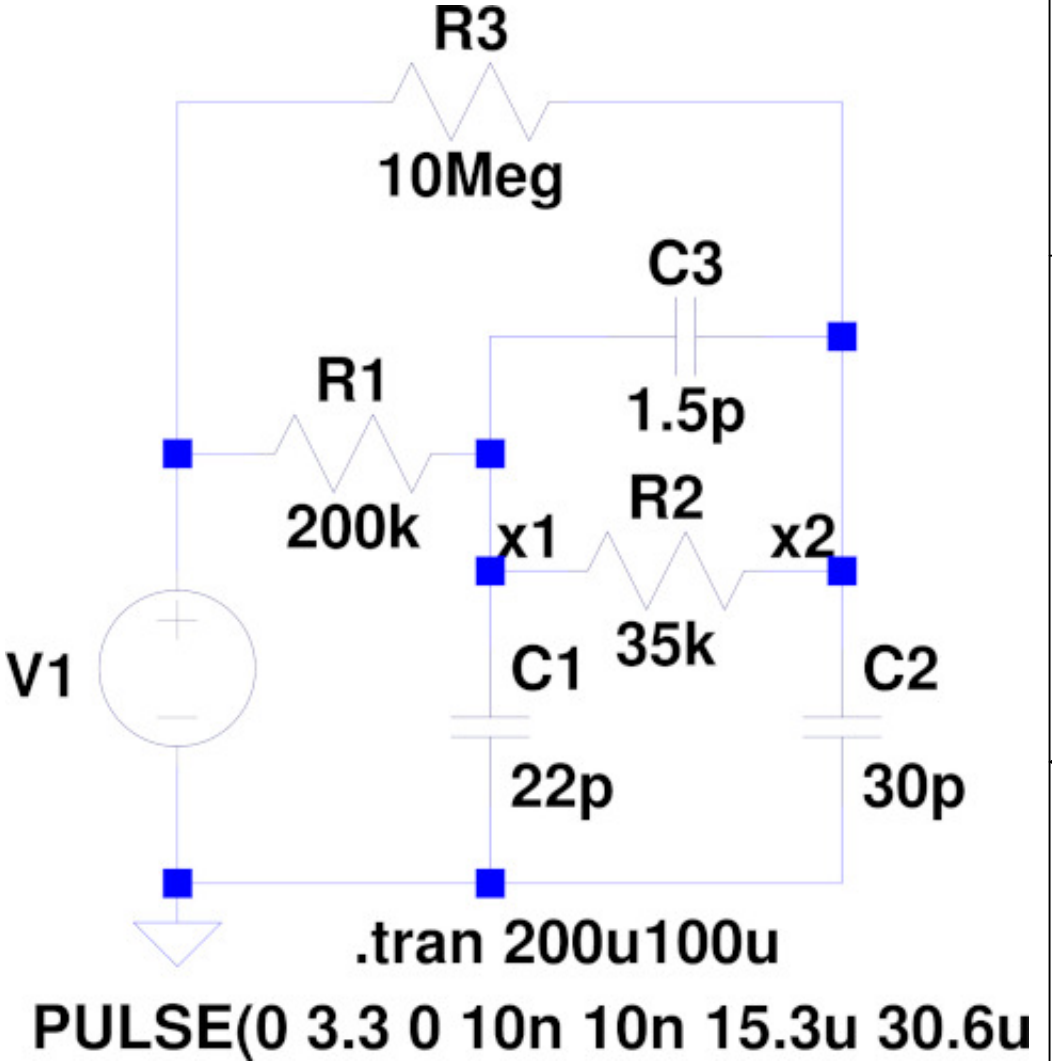
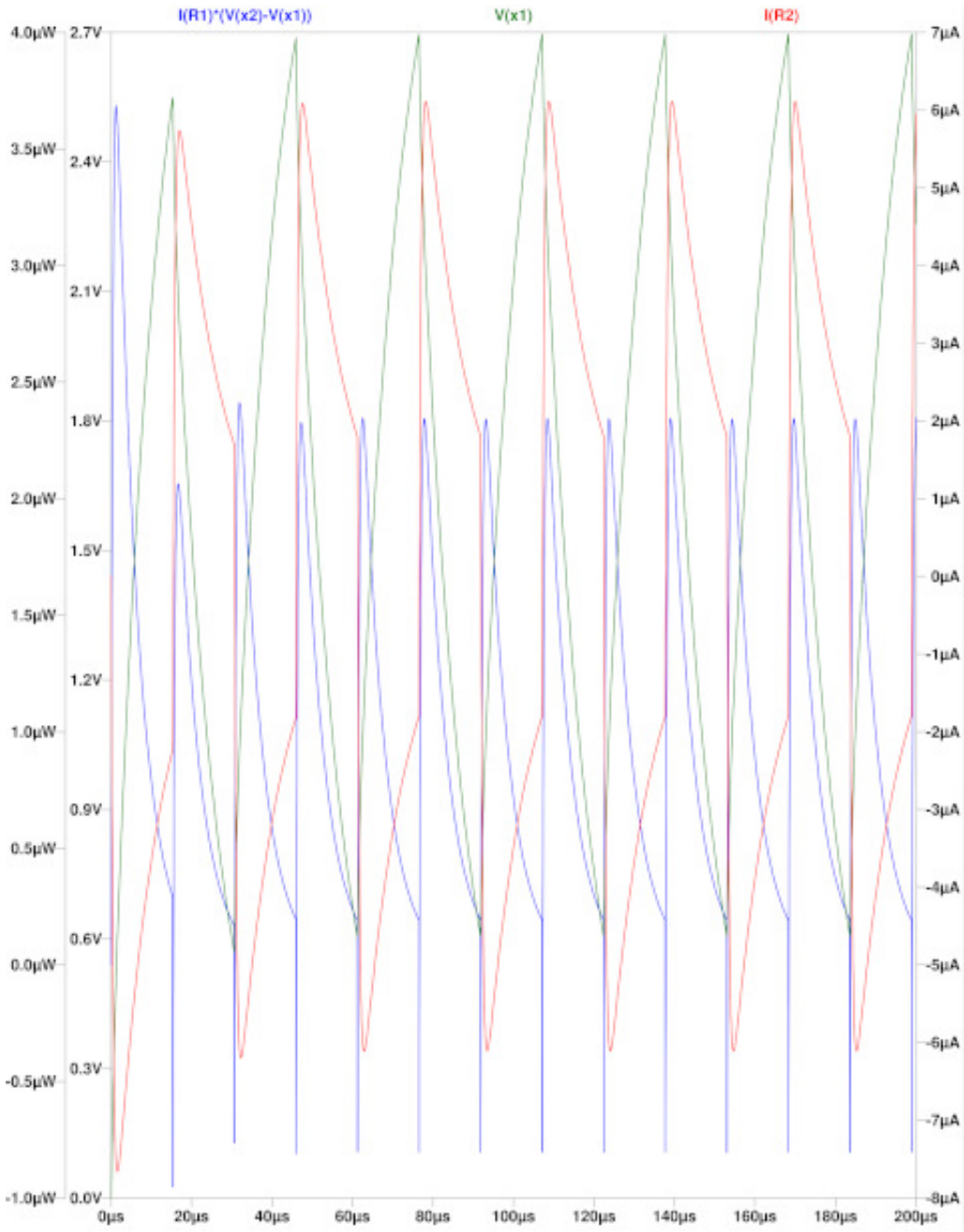
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DIMENSION [mm]



STANDARD SPECIFICATIONS

Item	Model	CFS-206	CFS-145	Conditions
Nominal Frequency	f_0	32.768kHz		
Frequency Tolerance	$\Delta f/f_0$	$\pm 5\text{ppm} / \pm 10\text{ppm} / \pm 20\text{ppm}$		at 25°C
Load capacitance	C_L	6.0pF / 7.0pF / 8.0pF / 12.5pF		Please specify your requirement
Operating Temperature Range	T_{OPR}	$-20^\circ\text{C} \sim +70^\circ\text{C}$		
Storage Temperature Range	T_{STR}	$-40^\circ\text{C} \sim +85^\circ\text{C}$		
Turnover Temperature	T_M	$25^\circ\text{C} \pm 5^\circ\text{C}$		
Temperature Coefficient	β	$-0.034 \pm 0.006\text{ppm}/^\circ\text{C}^2$		
Motional (series) resistance	R_1	35K Ω Max.	40K Ω Max.	at 25°C
Level of drive	D_L	1 μW Max.		
Aging (first year)	$\Delta f/f_0$	$\pm 3\text{ppm}$ Max.		$25^\circ\text{C} \pm 3^\circ\text{C}$
Shunt capacitance	C_0	1.2pF Typ.	1.0pF Typ.	



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