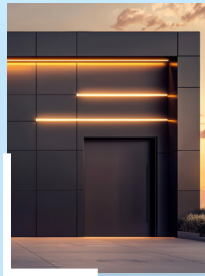


Spec Market White 240 LED/m LED Tape

AlphaSpec™ sets a new standard in the specification lighting market and is **proudly Made in the USA**. When paired with the correct channel and lens, it achieves **full diffusion** for a **completely spotless** appearance—ideal for high-end architectural and commercial applications. Despite its **slim 12 mm width**, AlphaSpec™ incorporates a **fixed density of 240 LEDs per meter**, ensuring consistent and uniform illumination.



To meet diverse design needs, AlphaSpec™ offers **6 proprietary 2835 LED selections (ChromaSure™)** — featuring different performance characteristics (**chromaticity, efficacy, etc.**) — as well as **variable LED segment configurations**. It also supports **multiple luminous output options**, allowing you to balance brightness with power consumption. A **wide range of CCT selections** lets you dial in the precise ambiance for your space.

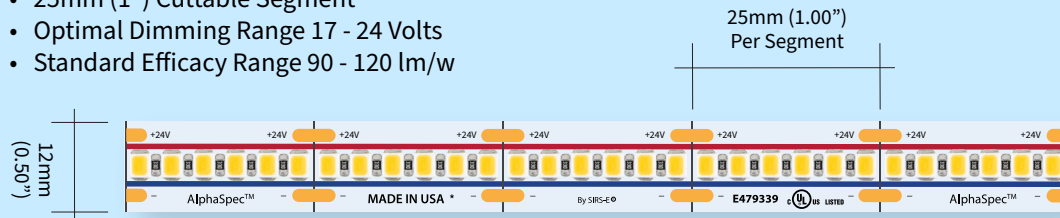
Backed by a **7-year limited warranty**, AlphaSpec™ is **designed and manufactured in America** specifically for the American market, ensuring high quality, local support, and compliance with relevant standards.



*BAA/BABA Compliance (More Info on Page 2)

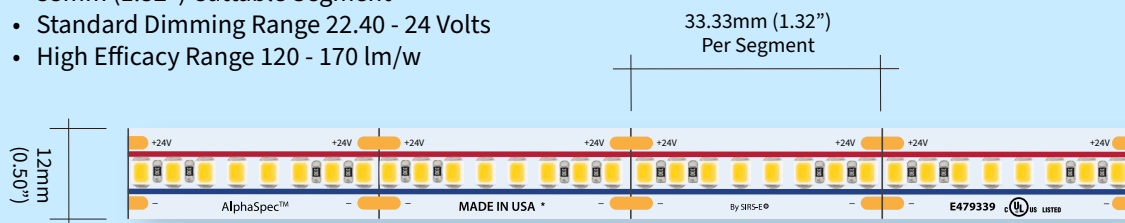
6 LEDs / segment 4 oz flexible PCB

- 25mm (1") Cuttable Segment
- Optimal Dimming Range 17 - 24 Volts
- Standard Efficacy Range 90 - 120 lm/w



8 LEDs / segment 4 oz flexible PCB

- 33mm (1.32") Cuttable Segment
- Standard Dimming Range 22.40 - 24 Volts
- High Efficacy Range 120 - 170 lm/w



Spec Market White 240 LED/m LED Tape

2835 ChromaSure™ LED Package - 1 Bin, 6 Variations

1. **3H** - 3 SDCM, 95 CRI, 95 CQS, High Efficacy up to 140 lm/W
2. **3U** - 3 SDCM, 95 CRI, 95 CQS, Ultra Efficacy up to 180 lm/W
3. **2H** - 2 SDCM, 96 CRI, 96 CQS, High Efficacy up to 140 lm/W
4. **2U** - 2 SDCM, 96 CRI, 96 CQS, Ultra Efficacy up to 180 lm/W
5. **1H** - 1 SDCM, 98 CRI, 98 CQS, High Efficacy up to 140 lm/W
6. **1U** - 1 SDCM, 98 CRI, 98 CQS, Ultra Efficacy up to 180 lm/W

Optional Light Outputs - 100-1000 lm/ft

- 100, 200, 300, 400, 500, 750, 1000 lm/ft.



Comprehensive CCT Selections - 2200K-6500K

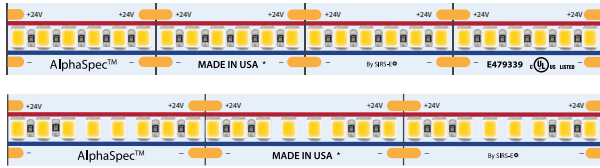
- 2200K, 2700K, 3000K, 3500K, 4000K, 5000K, 6500K

Delivering **proven LED strip lighting** with no electrical, chromatic, or color rendering issues. Our unwavering **focus on stability, efficiency, and performance** sets the benchmark in linear LED and lighting control solutions.

***BAA/BABA Compliance:** Made in the USA through domestic assembly using globally sourced PCB boards and LED chips. Final qualification for BAA/BABA is subject to an approved nonavailability exemption for these imported components (*as of March 2025, no domestically produced equivalents are available*).



Spec Market White 240 LED/m LED Tape




RoHS

Description

Engineered, manufactured, and tested entirely in the USA, our LED tape light offers exceptional performance, reliability, and local support. Specifiers can confidently choose this high-quality solution for commercial or upscale residential projects, knowing it's backed by rigorous domestic standards. This premium design not only ensures superior lighting results but also supports a strong value proposition, allowing professionals to maintain healthy margins while delivering a top-tier illumination experience.

Product Specifications

Input Voltage	24V DC	Cutttable Segments	25mm (1.00"), 33mm (1.32")
Limiting Control Method	CV - Constant Voltage	LED Strip Length	16.4 - 100' Spool
Power Consumption	1 - 9 W/ft.	Tape Width	12mm (0.50")
LED Type	2835 ChromaSure™	TM21 (LM80)	50,000 hrs ¹
LED Density	240 LEDs/m	Dimming	17-24V / 22-24V
Board Type/Color	4 oz Density Copper, White PCB	Environmental	IP 40 (Indoor - Dry) / IP 67 (Water Resistant)
Beam Angle (Degree)	120°	Connection Type	Hardwire
Operation Temperature	-20°F to 120°F	Pre-Soldered Lead Wire	12" White Plenum
Mounting Method	Non-Porous 3M 5952 VHB	Country of Origin	USA Global Components
Color Rendering Index (CRI)	95 - 98 / R9 95-98	Warranty	7 Year
Color Quality Grade (CQG)	95 - 98 / TLCI 93-95	Certifications	RoHS  US UL E479339

Electrical Photometrics²

		100 lm / ft	200 lm / ft	300 lm / ft	400 lm / ft	500 lm / ft	750 lm / ft	1000 lm / ft
2835 - SDCM (1-3) High Efficacy (H)	CCT 2200 - 6500 (AVG) +/- 10%	100	200	300	400	500	750	1000
	Power Consumption W/ft.	1.20	2.35	3.66	4.38	5.50	7.42	8.99
	Luminous Efficacy (lm/W)	83	85	82	91	91	101	111
	LED/Seg. (6) Max Run ft.	33	28	26	22	20	19	14
2835 - SDCM (1-3) Ultra Efficacy (U)	CCT 2200 - 6500 (AVG) +/- 10%	100	200	300	400	500	750	1000
	Power Consumption W/ft.	0.93	1.83	2.84	3.40	4.27	5.76	6.98
	Luminous Efficacy (lm/W)	107	109	105	118	117	130	143
	LED/Seg. (6) Max Run ft.	42	36	33	29	26	24	18
2835 - SDCM (1-3) High Efficacy (H)	CCT 2200 - 6500 (AVG) +/- 10%	100	200	300	400	500	750	1000
	Power Consumption W/ft.	0.90	1.76	2.74	3.28	4.12	5.55	6.72
	Luminous Efficacy (lm/W)	112	114	110	122	122	135	149
	LED/Seg. (8) Max Run ft.	44	37	34	30	26	25	19
2835 - SDCM (1-3) Ultra Efficacy (U)	CCT 2200 - 6500 (AVG) +/- 10%	100	200	300	400	500	750	1000
	Power Consumption W/ft.	0.70	1.38	2.14	2.56	3.22	4.34	5.25
	Luminous Efficacy (lm/W)	143	145	140	156	156	173	190
	LED/Seg. (8) Max Run ft.	56	48	44	38	34	32	24

1 - After 50,000 hrs: 20% Luminous Flux loss, 10% Chromaticity change, as per LM80-15.
 2 - Photometric values obtained from LM-79 report for 5W/ft strips.
 3 - Typical values shown. For precise data, see individual LM-79 reports.

Ordering Guide

ODM	LED/m	LED/segment	SDCM	LED Efficacy High/Ultra	CCT K	lm/ft	IP Rating ⁴	Length 16.4-100 ft Spool
S	240	6	3	H	22	100	40	16
		8	2	U	27	200	67⁵	100
			1		30	300		
					35	400		
					40	500		
					50	750		
					65	1000		

Product Country of Origin

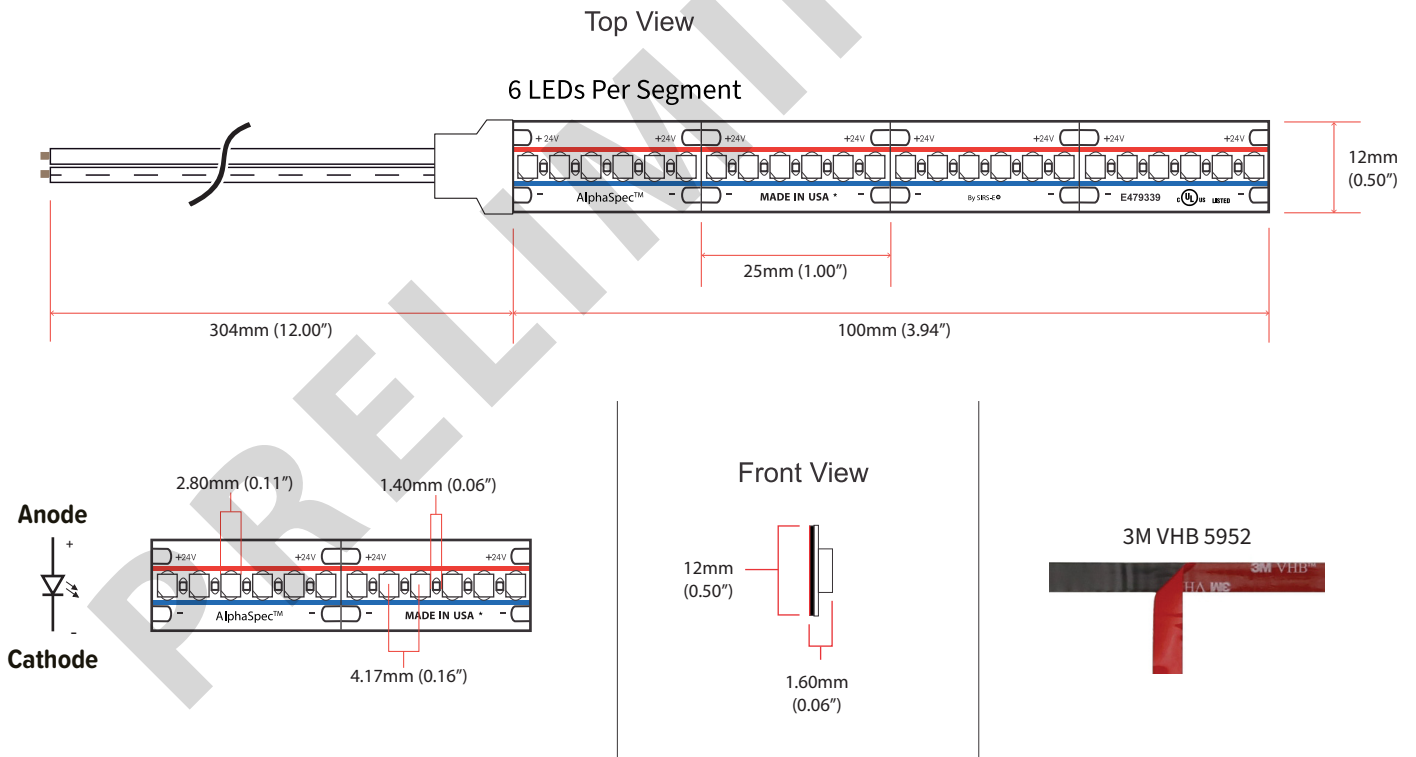
Product Engineering & Design	USA
Assembled	USA
Quality Control	USA
Product Customization	USA
Technical Support	USA

*Designed and manufactured in the USA using global LED chips and PCB boards.

Notes: ⁴IP - Varies on environment application, indoor or outdoor
⁵IP67 only on 16.4' (5m)

***BAA/BABA Compliance:** Made in the USA through domestic assembly using globally sourced PCB boards and LED chips. Final qualification for BAA/BABA is subject to an approved nonavailability exemption for these imported components (*as of March 2025, no domestically produced equivalents are available*).

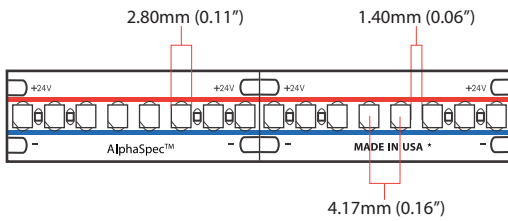
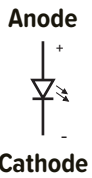
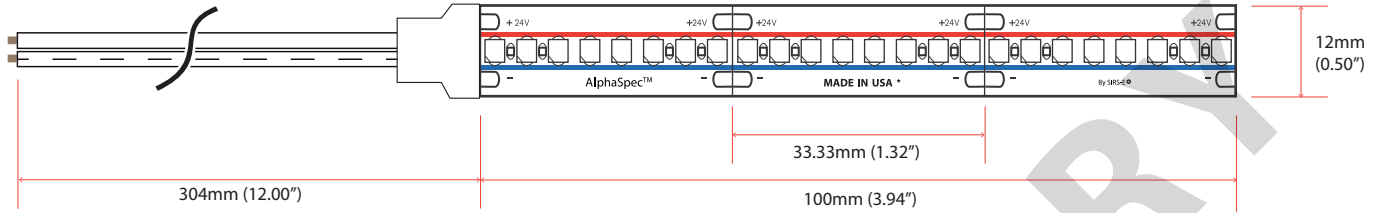
Mechanical Dimensions for 6 LEDs per Segment



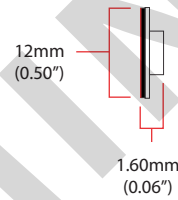
Mechanical Dimensions for 8 LEDs per Segment

Top View

8 LEDs Per Segment



Front View



PRELIMINARY

Accessories Compatible

This list shows our most compatible accessories for AlphaSpec™ product. For the full selection, please visit our website.



MeanWell LED Power Supply
90 Watts 24
Volts 90-264VAC



SCAN OR CLICK QR CODE



Magnitude 24V PSU



SCAN OR CLICK QR CODE



Nicolaudie STICK-DE3 Wall Mount LED Lighting Controller



SCAN OR CLICK QR CODE



RGBW 4 Channel High Power LED DMX Controller



SCAN OR CLICK QR CODE



LTech UB2 Tunable White (CCT) DMX Wall Mount with Bluetooth



SCAN OR CLICK QR CODE



RGB / RGBW LED DMX RDM Decoder 5 Channels



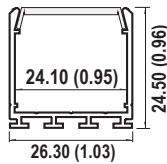
SCAN OR CLICK QR CODE

Compatible LED Aluminum Extrusions

SIRS-E® Mount Aluminum Extrusions for smooth, sleek mounting for the AlphaSpec™ CV Series. Select an Extrusion that fits your LED strip, matches your space requirements and aesthetic preference.



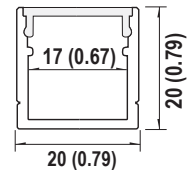
SIRS-E® SF-RS2403
Surface Mount
Aluminum Extrusion



Thickness: Extrusion 1.00mm-Diffuser 2.10mm



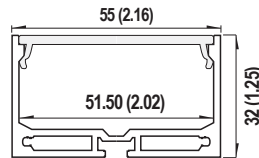
SIRS-E® SF-RS2020S
Surface Mount
Aluminum Extrusion



Thickness: Extrusion 1.20mm-Diffuser 1.20mm



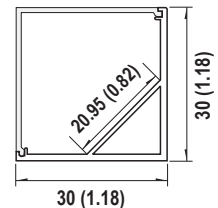
SIRS-E® SE-SP5532
Surface Mount
Aluminum Extrusion



Thickness: Extrusion 1.80mm-Diffuser 2.00mm



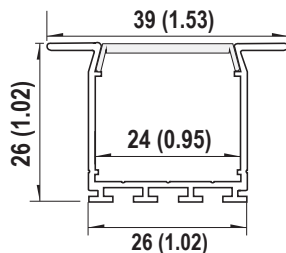
SIRS-E® CR-3030S
Corner Mount
Aluminum Extrusion



Thickness: Extrusion 1.20mm-Diffuser 1.30mm



SIRS-E® SE-RS2404
Recessed Mount
Aluminum Extrusion



Thickness: Extrusion 1.05mm-Diffuser 1.05mm

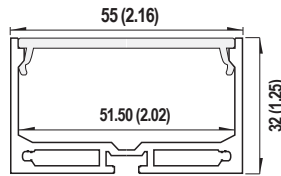
For our full selection of aluminum extrusions, please scan or click the QR code.



Compatible LED Aluminum Extrusions



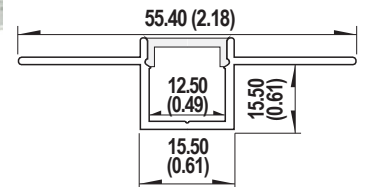
SIRS-E® SE-SP5532
Surface Mount
Aluminum Extrusion



Thickness: Extrusion 1.80mm-Diffuser 2.00mm



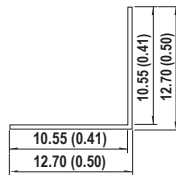
SIRS-E® SE-DW5615
Plaster-In Drywall
Mount Aluminum
Extrusion



Thickness: Extrusion 1.50mm-Diffuser 1.50mm



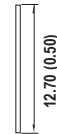
SIRS-E® SE-AB1212
Aluminum Angle Bar



Thickness: Extrusion 1.59mm (1/16 in.)



SIRS-E® SE-FB12
Aluminum Flat Bar

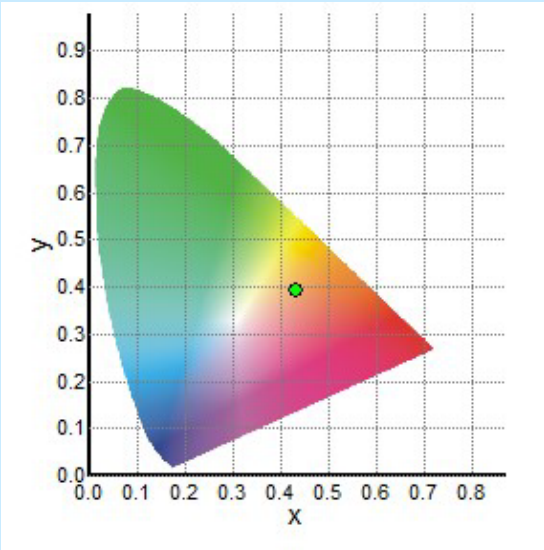


Thickness: Extrusion 1.59mm (1/16 in.)

For our full selection of aluminum extrusions, please scan or click the QR code.



Preliminary R&D Photometric Report



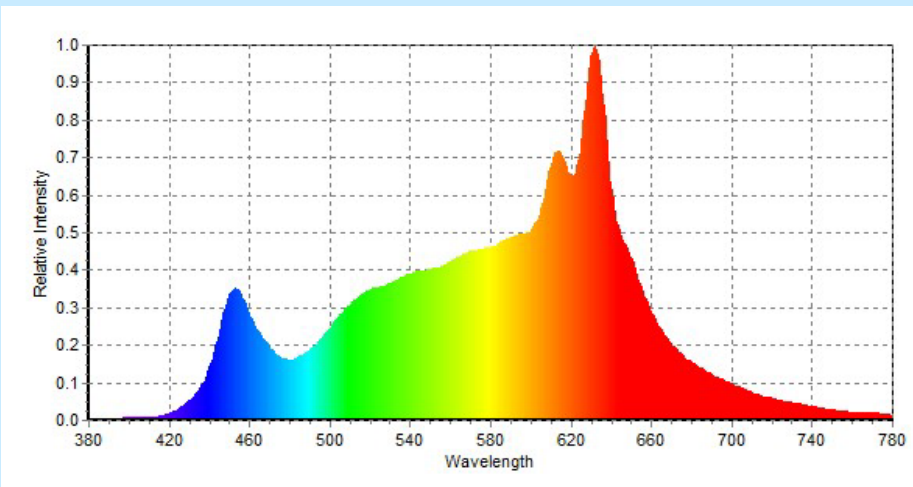
CIE1931 Chromaticity Diagram

Product Description

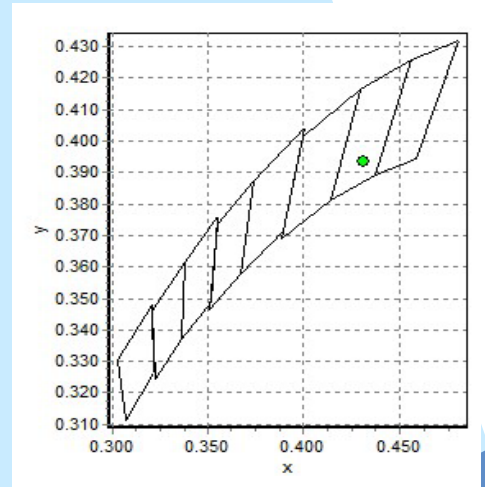
Product Name	S240-83U30-1000-4001
Sample Number	1' Sample
Date(YYYY/MM/DD)	2025/3/13 16:51:25
Manufacturer	SIRS Electronics Inc.
Tester / Reviewer	Diego Iorio
Temperature(C)	24 C
Re. Humidity(%)	55%

Photometry and Chromaticity

CIE_x	0.4318	Duv	-0.0036
CIE_y	0.3934	λd(nm)	584.2
CIE_u'	0.2518	Purity(%)	48
CIE_v'	0.5163	FWHM (nm)	47
CCT(K)	3000	SP ratio	1.49
λp(nm)	632	CRI(Ra)	96
TLCl(Qa)	90.4	GAI	65.0
GAI BB8	113	GAI BB15	115
TM-30 Rf	93	TM-30 Rg	103

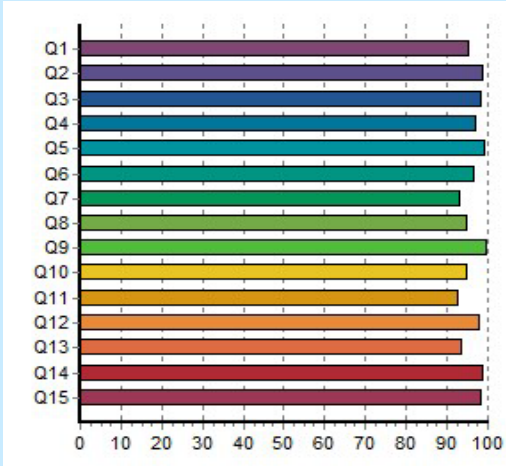


Spectral Distribution



C78.377-2008

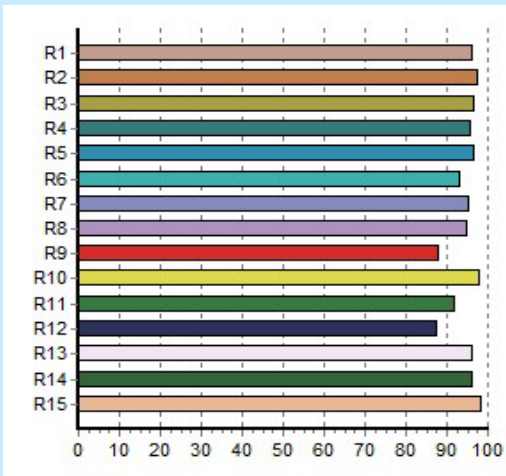
Preliminary R&D Photometric Report



Histogram Diagram of CQS

Q1	95.5	Q6	96.8	Q11	93.1
Q2	99.0	Q7	93.6	Q12	98.0
Q3	98.7	Q8	95.4	Q13	93.8
Q4	97.4	Q9	99.8	Q14	99.2
Q5	99.4	Q10	95.2	Q15	98.8

CQS-Qa 96



Histogram Diagram of CRI

R1	96.4	R6	93.6	R11	92.2
R2	97.9	R7	95.8	R12	87.7
R3	96.9	R8	95.1	R13	96.6
R4	95.9	R9	88.1	R14	96.6
R5	97.0	R10	98.4	R15	98.7

Re(thru R1~R15) 95