



# YJ-VTC-MOD-5730-24

## High CRI LED Module

### PRODUCT:

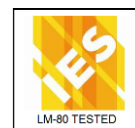
1-FT VX5730 24V LED MODULE

### FEATURES:

280 mm x 20 mm x 2.0 mm MCPCB Linear Module  
 Integrated SMD connector  
 Zhaga compliant  
 120° emission angle  
 95 min CRI

### DESCRIPTION

Yuji LED's high CRI 5730 LED module provides a convenient PCB solution for high CRI LED applications. Providing 97 CRI, this versatile LED module can be used in a variety of applications demanding high color quality and performance.



### ELECTRICAL-OPTICAL CHARACTERISTICS (T<sub>c</sub> = 25 °C)

PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Forward Current	I <sub>f</sub>	340	--	380	mA	±5	V <sub>f</sub> = 24 V
Luminous flux	Φ <sub>2700K</sub>	480	--	545	lm	--	V <sub>f</sub> = 24 V
	Φ <sub>3200K</sub>	520		630			
	Φ <sub>4000K</sub>	545		630			
	Φ <sub>5600K</sub>	525		650			
Color temperature	CCT <sub>2700K</sub>	2625	2700	2775	K	--	V <sub>f</sub> = 24 V
	CCT <sub>3200K</sub>	3125	3200	3275			
	CCT <sub>4000K</sub>	3900	4000	4100			
	CCT <sub>5600K</sub>	5450	5600	5750			
Color rendering index	R <sub>a</sub>	95	97	--	--	--	V <sub>f</sub> = 24 V
TCS R9 (CRI Red)	R <sub>9</sub>	--	90	--	--	--	V <sub>f</sub> = 24 V
Chromaticity coordinates	(X,Y)	--	--	--	--	±0.005	
Viewing angle	2θ <sub>1/2</sub>		120		Deg	±5	V <sub>f</sub> = 24 V

### ORDERING INFORMATION

PART NUMBER	CCT
YJ-VTC-MOD-5730-24-27	± 75K
YJ-VTC-MOD-5730-24-32	± 75K
YJ-VTC-MOD-5730-24-40	± 100K
YJ-VTC-MOD-5730-24-56	± 150K
YJ-VTC-MOD-5730-24-XX	CUSTOM



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ABSOLUTE MAXIMUM RATING (T <sub>c</sub> = 25 °C)			
PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P <sub>D</sub>	11.3	W
DC Forward Voltage	V <sub>F</sub>	25	V
Junction Temperature	T <sub>j</sub>	125	°C
Case Temperature*	T <sub>s</sub>	PENDING	°C
Solder Point Temperature*	T <sub>C</sub>	105	°C
Operating Temperature	T <sub>opr</sub>	-45 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-45 ~ +85	°C

CHROMATICITY BINS & COORDINATES								
CCT	CIE 1931 COORDINATES							
	X0	Y0	X1	Y1	X2	Y2	X3	Y3
2700K	0.32665	0.34925	0.3336	0.356	0.3333	0.34195	0.32695	0.3356
3200K	0.37875	0.3838	0.37455	0.3672	0.3832	0.3728	0.3883	0.39025
4000K	0.4248	0.40885	0.41655	0.38955	0.4275	0.3935	0.4367	0.4132
5600K	0.45345	0.41545	0.4689	0.41795	0.46015	0.40105	0.44505	0.3987

