

Product Selector

Laser Driver ICs

	iC-HB	iC-HG	iC-HK iC-HKB	iC-HT iC-HTP	iC-NZ	iC-NZN iC-NZP	iC-VJ iC-VJZ	iC-WJB	iC-WJ iC-WJZ	iC-WK iC-WKL	iC-WKN iC-WKM iC-WKP
	Switch/Sink			CW/TX Power Controller						CW Power Controller	
Supply Voltage	3.5 to 5.5 V	3 to 5.5 V	3.5 to 5.5 V B: 3 to 5 V (15 V)	2.8 to 11 V	3.5 to 5.5 V	3 to 5.5 V	5 V	2.7 to 6 V	5 V	2.4 to 6 V	3.6 to 15 V
LD Drive	3 x 65 mAdc, 3 x 0.3 Apeak	6 x 500 mA	2 x 150 mAdc, 2 x 0.7 Apeak	2 x 750 mAdc, or 1 x 1500 mA	3 x 100 mAdc, 3 x 700 mApeak	300 mA	250 mA	100 mA	250 mA	70 mA	350 mA
Operation	CW to 155 MHz (tr/ff 1ns)	CW to 200 MHz (tr/ff < 1ns)	CW to 155 MHz (tr/ff 1ns)	CW to 0.2 kHz	CW to 155 MHz (tr/ff 1.5 ns)	CW to 155 MHz (tr/ff 1.5 ns)	1 to 200 kHz	CW to 300 kHz	CW to 300 kHz	CW	CW
Adjustable APC	n/a	n/a	n/a	logarithmic configuration	peak value (4 levels)	peak value, averaging	averaging	averaging	averaging	averaging	averaging
Monitor Current				2.9 µA to 3.5 mA			50 µA to 500 µA 150 µA to 1.5 mA	150 µA to 1.5 mA	50 µA to 500 µA 150 µA to 1.5 mA	10 µA to 2.5 mA	2.5 µA to 6.2 mA
Protective Circuits											
Reverse Polarity	-	-	-	-	-	-	-	•	-	•	•
Burst/Transients	-	-	-	-	-	-	-	•	-	•	•
Overcurrent	-	-	-	configurable limit	reset	-	-	-	-	reset	reset
Thermal Shutdown	•	•	•	•	•	•	•	•	•	•	•
Undervoltage Lockout	-	-	-	•	•	•	•	•	•	-	-
LD Pinout	n/a	n/a	n/a	N, M (iC-HT) P (iC-HTP)	N, M, P	N, M, P	N, M	N, M	N, M (P)	N, M, P	N M P
OTR °C	-25..85	-25..85	-25..85	-40..85	-20..90	-20..85	-25..90	-25..90	-25..90	-40..85	-40..85
Package	QFN24 4x4	QFN28 5x5	SO8Ntp MSOP8tp	QFN28 5x5	QFN28 5x5	QFN24 4x4	SO16N	SO8N MSOP8	SO8N MSOP8	MSOP8	SO8Ntp DFN10 4x4
Special Features	High-speed spike-free switching, LVDS inputs, current monitor output	High-speed spike-free switching, LVDS inputs	High-speed spike-free switching	SPI/I ² C interface, pin configurable, monitoring, ACC, APC, standby, safety features	Safety monitor diode input, single failure proof, self test	APC or ACC	RC Oscillator, duty cycle 50%, soft-start	Input watchdog, soft-start	Input watchdog, soft-start	Quick start, 1% accuracy	3% accuracy, low Rth package
Applications	Laser printers	Pump lasers, Laser projection, Laser TV, LED drivers, Camera lighting, TOF lighting, LIDAR lighting	Laser data transmission, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)	Laser pointer, Pump laser, laser diode modules, embedded laser diode controllers, safety related laser controller	Laser data transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)	Laser data transmission, bar-code readers, triangulation sensors, displacement sensor, safety light scanners (area-guarding systems, safeguarding access to machines)	Triangulation sensors, displacement sensors	Leveling lasers, laser alignment tools, laser pointers, bar-code readers, triangulation sensors	Laser alignment tools, laser data transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)	Leveling lasers, laser alignment tools, laser pointers, bar-code readers	Leveling lasers, laser alignment tools, laser pointers, bar-code readers

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Application Notes for Laser Driver