Intelligent Displays (IDIS)

Ceramic Hi-rel Intelligent Displays

8-digit 5x7 Ceramic Hi-rel Intelligent Display (Parallel Input / Character Set & UDC)

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IPD213X Display
Parallel Input with a Character Set & User Definable Characters

4-digit 5x7 Ceramic Hi-rel Intelligent Display (Serial Input / Shift Register Driver)

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ISD201X Display
Serial Input with a shift register driver

ISD231X Display
Serial Input with a shift register driver

ISD235X Display
Serial Input with a shift register driver

IPD254XA Display
Parallel Input with a character set

10-digit Plastic Package Intelligent Displays

10-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)

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SCD5510XA Display
Serial Input with a Character RAM

8-digit Plastic Package Intelligent Displays

8-digit wide body 5X7 Intelligent Display (Parallel Input)

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HDSP211XS Display
Parallel Input with a Character Set & User Definable Characters

PDSP211X Display
Parallel Input with a Character Set

8-digit Slimline 5X7 Intelligent Display

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PDSP188X Display
Parallel Input with a Character Set & User Definable Characters

SCE578X Display
Serial Input with a Character RAM

8-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)

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SCD558XA Display
Serial Input with a Character RAM

4-digit Plastic Package Intelligent Displays

4-digit wide body 5X7 Intelligent Display (Parallel Input / Character Set)

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PD243X Display
Parallel Input with a Character Set

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Parallel Input with a Character Set

PD443X Display
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4-digit domino series 5X7 Intelligent Display (Parallel Input / Character Set)

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DLX1414 Display
Parallel Input with a Character Set

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Parallel Input with a Character Set

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4-digit wide body serial interface 5X7 Intelligent Display

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SCF574X Display
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4-digit Slimline 5X7 Intelligent Display (Parallel Input / Character Set)

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SLX2016 Display
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4-digit Slimline 5X7 Intelligent Display with serial interface (Serial Input / Character RAM)

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SCE574X Display
Serial Input with a Character RAM DIP Package Pinout

4-digit Slimline 5X7 Intelligent Display with serial interface and single-inline leads (SIP)

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SCE574XP Display
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SCE574XQ Display
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4-digit Square Format Plastic Package Displays

4-digit Square Format Intelligent Displays with straight single inline leads (SIP) (Serial Input / Character RAM)

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SCDQ554XP Display
Serial Input with a Character RAM SIP Package Pinout

4-digit Square Format Intelligent Displays with 90 degree bend single inline leads (Q-SIP) (Serial Input / Character RAM)

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SCDQ554XQ Display
Serial Input with a Character RAM SIP Package Pinout with 90 Degree Formed

4-digit Square Format Intelligent Displays with molex connector (Serial Input / Character RAM)

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SCDQ554XR Display
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Single digit Plastic Package Intelligent Displays

Single digit Intelligent Displays (Parallel Input / Character Set)

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DLX413X Display
Parallel Input with a Character Set

DLX713X Display
Parallel Input with a Character Set

Features

Display devices

Intelligent displays are alphanumeric LED displays with built-in CMOS circuits. They are totally self-contained peripherals which allow a wide variety of design configurations, minimize design time and reduce design costs.

- ASCII character set for 128 and 256 characters, or user definable characters
- Bright, high-contrast LED technology
- TTL-compatible, CMOS logic
- 5 V operation
- Very high life expectancy
- Compatible with microprocessor systems
- Access time from 45 ns up to 525 ns
- Independent access to each digit
- Highly compact, flat packages
- Easily stackable for longer message lengths
- Intensity coded for display uniformity

Mounting Instructions

Handling

Observe ESD precautions

- Avoid touching the pins; handle the body only.
- Keep the devices in anti-static tubes or conductive material when transporting
- Use a conductive and grounded work area (conductive flooring, conductive work benches, individual wrist straps, etc.)

Soldering

- Max. soldering temperature: 260 °C
- Max. soldering time: 5 s
- Min. solder distance: > 1.59 mm below the seating plane

In case of wave soldering, the package temperature of Intelligent Displays is not allowed to exceed the max. operating temperature. **It is necessary to use water soluble or alcohol-free soldering flux.**

Solvents

Do not use any cleaning solvents containing alcohol.

Eigenschaften

Einzelbausteine

Intelligente Anzeigen sind alphanumerische LED Displays mit eingebautem CMOS-Schaltkreis. Sie sind völlig unabhängige, anwenderfreundliche Peripheriebausteine, die eine große Vielfalt von Gestaltungsmöglichkeiten zulassen, Entwicklungszeit einsparen und -kosten reduzieren.

- ASCII-Zeichensatz für 128 und 256 Zeichen, oder frei programmierbarer Zeichensatz
- Helle, kontraststarke LED-Technologie
- TTL-kompatibel, CMOS-Logik
- Betrieb mit 5 V Versorgungsspannung
- Sehr hohe Lebenserwartung
- Kompatibel zu Microcomputer-Systemen
- Zugriffszeit von 45 ns bis 525 ns
- Direkter, unabhängiger Zugriff auf jede Stelle
- Sehr kompakte, flache Gehäuse
- Einfach aneinanderreihbar für erweiterte Textlängen
- Helligkeitscode für gleichmäßig leuchtende Anzeige

Einbauhinweise

Handhabung

ESD-Vorsichtsmaßnahmen sind zu beachten

- Vermeiden Sie, Anschlüsse zu berühren. Fassen Sie nur am Gehäuse an.
- Transportieren Sie die Bausteine nur in antistatischen Schienen oder auf leitendem Material.
- Die Arbeitsumgebung muß leitend geerdet sein (leitender Fußboden, leitende Arbeitstische, individuelle Handgelenk-Ableitbänder, usw.)

Löten

- Max. Löttemperatur: 260 °C
- Max. Lötzeit: 5 s
- Min. Lötabstand: > 1,59 mm

Bei Wellenlötbädern darf die Gehäusetemperatur die max. Betriebstemperatur nicht überschreiten. **Es muß wasserlösliches bzw. alkoholfreies Flußmittel verwendet werden.**

Lösungsmittel

Zum Reinigen der Platinen keine alkoholhaltigen Lösungsmittel benutzen.

Ceramic Hi-rel Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	# of dots per charac-ter	Temperature range Opera-ting / Storage [°C]	Features	Ordering Code	Package Fig.
8-digit 5x7 Ceramic Hi-rel Intelligent Display (Parallel Input / Character Set & UDC)											
	IPD2131	yellow	8	4.85	42.7 x 9.9	parallel	35 5 x 7	-55 ... 100 / -65 ... 125	• Built-in CMOS decoder, multi-plexer, memory and driver • 128 character ASCII character ROM • 16 user definable characters • Rugged ceramic package, hermetically sealed flat glass lens	Q68000A8904	1
	IPD2132	super red								Q68000A8836	
	IPD2133	high effi-ciency green								Q68000A8906	
4-digit 5x7 Ceramic Hi-rel Intelligent Display (Serial Input / Shift Register Driver)											
	IPD2545A	high effi-ciency green	4	6.4	30.48 x 12.45	parallel	35 5 x 7	-55 ... 100 / -65 ... 125	• Built-in CMOS decoder, multi-plexer, memory and driver • 128 character ASCII character ROM • Rugged ceramic package, hermetically sealed flat glass lens	Q68000A9883	2
	IPD2547A	green								Q68000A9884	
	IPD2548A	yellow								Q68000A9885	
	ISD2010	hyper red	4	3.7	17.7 x 7.87	serial shift register	35 5 x 7	-55 ... 100 / -65 ... 125	• Serial input. Easily cascaded for multiple displays • Built-in low power CMOS shift register and constant current LED row drivers • External column strobing allows use of standard and custom alphanumeric fonts • Rugged ceramic package, hermetically sealed flat glass lens	Q68000A8134	3
	ISD2011	yellow								Q68000A8135	
	ISD2012	super red								Q68000A8136	
	ISD2013	high effi-ciency green								Q68000A8137	
	ISD2310	hyper red	4	4.88	20.07 x 8.43	serial shift register	35 5 x 7	-55 ... 100 / -65 ... 125	• Serial input. Easily cascaded for multiple displays • Built-in low power CMOS shift register and constant current LED row drivers • External column strobing allows use of standard and custom alphanumeric fonts • Rugged ceramic package, hermetically sealed flat glass lens	Q68000A8138	4
	ISD2311	yellow								Q68000A8139	
	ISD2312	super red								Q68000A8140	
	ISD2313	high effi-ciency green								Q68000A8141	
	ISD2351	yellow	4	4.88	20.07 x 8.43	serial shift register	35 5 x 7	-55 ... 100 / -65 ... 125	• Sunlight viewable • Serial input. Easily cascaded for multiple displays • Built-in low power CMOS shift register and constant current LED row drivers • External column strobing allows use of standard and custom alphanumeric fonts • Rugged ceramic package, hermetically sealed flat glass lens	Q68000A8142	4
	ISD2352	super red								Q68000A8143	
	ISD2353	high effi-ciency green								Q68000A8144	

10-digit Plastic Package Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
10-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)												
	SCD55104A	high effi-ciency green	10	3.68	38.1 x 3.68	serial	typ. 65	25 5 x 5	-40 ... 85 / -40 ... 100	• Optimum display surface efficiency, • Lower Power - 30% less than 5X7 dot matrix, • High speed serial data input - 5MHz, • Readable from 6 feet (1.8 meters), • Attributes: 250 bit RAM for user definable characters, Eight dimming levels, Power down mode, Hardware/soft-ware CLEAR fucntion, Lamp test. • Internal or external mux clock.	Q68100A0992	5
	SCD55103A	green_									Q68100A0991	
	SCD55102A	super red									Q68100A0990	
	SCD55101A	yellow									Q68100A0989	
	SCD55100A	red									Q68100A0988	

8-digit Plastic Package Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
8-digit wide body 5X7 Intelligent Display (Parallel Input)												
	HDSP2110S	hyper red	8	5.1	42.67 x 19.58	paral-lel	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, multiplexer, memory and driver, • 128 ASCII character ROM, • 16 user definable characters,	Q68000A8560	6
	HDSP2111S	yellow									Q68000A8561	
	HDSP2112S	super red									Q68000A8562	
	HDSP2113S	green_									Q68000A8563	
	HDSP2114S	high effi-ciency green									Q68000A8564	
	HDSP2115S	orange									Q68000A8907	
8-digit Slimline 5X7 Intelligent Display												
	PDSP1880	hyper red	8	4.57	42.93 x 11.43	paral-lel	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, multiplexer, memory and driver, • 128 ASCII character ROM, • 16 user definable characters,	Q68000A9105	7
	PDSP1881	yellow									Q68000A9106	
	PDSP1882	super red									Q68000A9107	
	PDSP1883	green_									Q68000A9108	
	PDSP1884	high effi-ciency green									Q68000A9109	
	SCE5780	hyper red	8	4.57	42.93 x 11.43	paral-lel	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiplexers and LED Drivers • Readable from 8 Feet (2.5 meters) • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1), Internal or External Clock.	Q68000A9100	8
	SCE5781	yellow									Q68000A9101	
	SCE5782	super red									Q68000A9102	
	SCE5783	green_									Q68000A9103	
	SCE5784	high effi-ciency green									Q68000A9104	
	SCE5785	soft oran ge									Q68100A0550	
	SCE5786	InGaAlP red									Q68100A1435	
8-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)												
	SCD5584A	high effi-ciency green	8	3.68	38.1 x 10	serial	typ. 65	25 5 x 5	-40 ... 85 / -40 ... 100	• Optimum display surface efficiency, • Lower Power - 30% less than 5X7 dot matrix, • High speed serial data input - 5MHz, • Readable from 6 feet (1.8 meters), • Attributes: 200-bit RAM for user definable characters, Eight dimming levels, Power down	Q68100A1000	9
	SCD5583A	green_									Q68100A0998	
	SCD5582A	super red									Q68100A0997	
	SCD5581A	yellow									Q68100A0996	
	SCD5580A	hyper red									Q68100A0994	

4-digit Plastic Package Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
4-digit wide body 5X7 Intelligent Display (Parallel Input / Character Set)												
	PD2435	high effi-ciency red	4	5.08	25.4 x 17.78	paral-lel	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, 128 ASCII character ROM. • 3 dimming levels plus blank • Blinking cursor, character, lamp test functions • Internal or external mux clock. • End stackable.	Q68000A3561	10
	PD2436	red									Q68000A8366	
	PD2437	green_									Q68000A3562	
	PD3535	high effi-ciency red	4	6.86	35.56 x 18.29	paral-lel	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, 128 ASCII character ROM. • 3 dimming levels plus blank • Blinking cursor, character, lamp test functions • Internal or external mux clock • End stackable.	Q68000A7964	11
	PD3536	red									Q68000A8365	
	PD3537	bright gre en									Q68000A7965	
	PD4435	high effi-ciency red	4	11.43	38.1 x 20.83	paral-lel	typ. 65	35 5 x 7	-40 ... 70 / -40 ... 100	• Reflector product produces large solid pixels with no cross-talk. • Built-in CMOS decoder, mul-tiplexer, memory and driver, 128 ASCII character ROM. • 3 dimming levels plus blank • Blinking cursor, character, lamp test functions • Internal or external clock • end stackable.	Q68000A8367	12
	PD4436	red									Q68000A8368	
	PD4437	bright gre en									Q68000A8369	
4-digit domino series 5X7 Intelligent Display (Parallel Input / Character Set)												
	DLG1414	green_	4	3.7	17.78 x 20.32	paral-lel	typ. 75	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, 128 ASCII character ROM. • End stackable.	Q68000A8093	13
	DLO1414	high effi-ciency red									Q68000A8092	
	DLR1414	red									Q68000A8091	
	DLG2416	green_	4	5	25.4 x 20.32	paral-lel	typ. 75	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, 128 ASCII character ROM. • End stackable.	Q68000A8096	14
	DLO2416	high effi-ciency red									Q68000A8095	
	DLR2416	red									Q68000A8094	
	DLG3416	green_	4	6.9	33.02 x 20.07	paral-lel	typ. 75	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, 128 ASCII character ROM. • End stackable.	Q68000A8099	15
	DLO3416	high effi-ciency red									Q68000A8098	
	DLR3416	red									Q68000A8097	

4-digit Plastic Package Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
4-digit wide body serial interface 5X7 Intelligent Display												
	SCF5740	red	4	6.86	33.02 x 20.07	serial	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiplexers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1), Internal or External Clock.	Q68000A8848	16
	SCF5742	high efficiency red									Q68000A8901	
	SCF5744	high efficiency green									Q68000A8903	
4-digit Slimline 5X7 Intelligent Display (Parallel Input / Character Set)												
	SLG2016	green_	4	4.72	19.91 x 10.16	parallel	typ. 75	35 5 x 7	-40 ... 85 / -40 ... 100	• Optimum display surface efficiency • Very close multi-line spacing, 0.4“ centers. • 128 special ASCII character ROM • Clear function that clears character memory • True blanking for intensity dimming applications	Q68000A8642	17
	SLO2016	high efficiency red									Q68000A8641	
	SLR2016	red									Q68000A8640	
	SLY2016	yellow									Q68000A8643	
4-digit Slimline 5X7 Intelligent Display with serial interface (Serial Input / Character RAM)												
	SCE5740	red	4	4.57	19.91 x 10.16	serial with dual inline leads (DIP)	typ. 55	35 5 x 7	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiplexers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select, Prescaler Function (External Oscillator Divided by 16 or 1), Internal or External Clock.	Q68100A1369	18
	SCE5741	yellow									Q68100A1370	
	SCE5742	super red									Q68100A1371	
	SCE5743	green_									Q68100A1372	
	SCE5744	high efficiency green									Q68100A1373	
	SCE5745	orange									Q68100A1374	
4-digit Slimline 5X7 Intelligent Display with serial interface and single-inline leads (SIP)												
	SCE5745P	orange	4	4.57	19.91 x 10.54	serial with straight single inline leads (SIP)	typ. 65	35 5 x 7	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters, • Built-in Decoders, Multiplexers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1)	Q68100A1483	19
	SCE5744P	high efficiency green									Q68100A1482	
	SCE5743P	green_									Q68100A1481	
	SCE5742P	super red									Q68100A1480	
	SCE5741P	yellow									Q68100A1479	

4-digit Plastic Package Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
4-digit Slimline 5X7 Intelligent Display with serial interface and 90 degree form single inline leads (Q-SIP)												
	SCE5745Q	orange	4	4.7	19.91 x 10.54	serial with 90 degree form sin-gle inline leads (Q-SIP)	typ. 55	35 5 x 7	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiple-xers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1)	Q68100A1488	20
	SCE5744Q	high effi-ciency green									Q68100A1487	
	SCE5743Q	green_									Q68100A1486	
	SCE5742Q	super red									Q68100A1485	
	SCE5741Q	yellow									Q68100A1484	
	SCE5740Q	red									Q68100A1440	

4-digit Square Format Plastic Package Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
4-digit Square Format Intelligent Displays with straight single inline leads (SIP) (Serial Input / Character RAM)												
	SCDQ5544P	high effi-ciency green	4	3.4	19.91 x 10.16	paral-lel	typ. 55	25 5 x 5	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiple-xers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1)	Q68100A1474 P	21
	SCDQ5543P	green_									Q68100A1473 P	
	SCDQ5542P	super red									Q68100A1078 P	
	SCDQ5541P	yellow									Q68100A1472 P	
4-digit Square Format Intelligent Displays with 90 degree bend single inline leads (Q-SIP) (Serial Input / Character RAM)												
	SCDQ5544Q	high effi-ciency green	4	3.4	19.91 x 10.16	paral-lel	typ. 55	25 5 x 5	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiple-xers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1)	Q68100A1474 Q	21
	SCDQ5543Q	green_									Q68100A1473 Q	
	SCDQ5542Q	super red									Q68100A1078 Q	
	SCDQ5541Q	yellow									Q68100A1472 Q	
4-digit Square Format Intelligent Displays with molex connector (Serial Input / Character RAM)												
	SCDQ5544R	high effi-ciency green	4	3.4	19.91 x 10.16	paral-lel	typ. 55	25 5 x 5	-40 ... 85 / -40 ... 100	• Serial Input, Dot Addressable Display. Ideal for User Defined Characters • Built-in Decoders, Multiple-xers and LED Drivers • Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select (12.5% or Full Peak Current), Prescaler Function (External Oscillator Divided by 16 or 1)	Q68100A1474 R	21
	SCDQ5543R	green_									Q68100A1473 R	
	SCDQ5542R	super red									Q68100A1078 R	
	SCDQ5541R	yellow									Q68100A1472 R	

Single digit Plastic Package Intelligent Displays

Package	Type	Emission Color	# of chars.	Char. height [mm]	Pak-kage size [mm]	Inter-face	View-ing angle x/ y-axis [deg.]	# of dots per cha-racter	Tempera-ture range Operating / Storage [°C]	Features	Ordering Code	Package Fig.
Single digit Intelligent Displays (Parallel Input / Character Set)												
	DLG4137	green_	1	17.27	25.4 x 12.7	paral-lel	typ. 75	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, • Reflector product produces large solid pixels with no cross-talk. • 4 programmable brightness levels. • Built-in 96 ASCII character ROM. • XY stackable.	Q68000A4299	22
	DLO4135	super red									Q68000A4297	
	DLG7137	green_	1	10.92	20.32 x 17.78	paral-lel	typ. 75	35 5 x 7	-40 ... 85 / -40 ... 100	• Built-in CMOS decoder, mul-tiplexer, memory and driver, • Reflector product produces large solid pixels with no cross-talk. • 4 programmable brightness levels. • Built-in 96 ASCII character ROM. • XY stackable.	Q68000A7159	23
	DLO7135	super red									Q68000A7157	

Dimensions in mm (inch)

Figure 1: IPD 213X

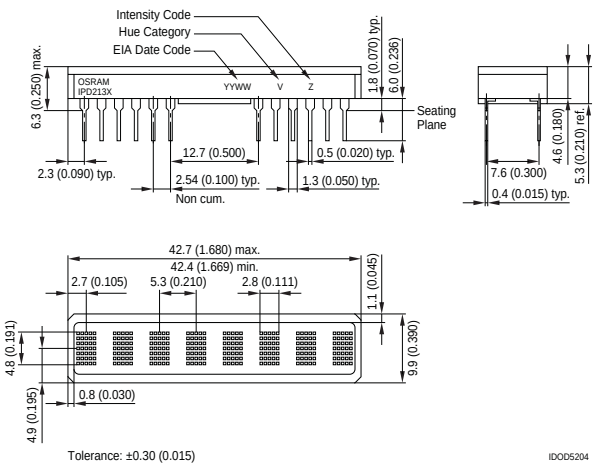


Figure 2: IPD 2545 A, IPD 2547 A

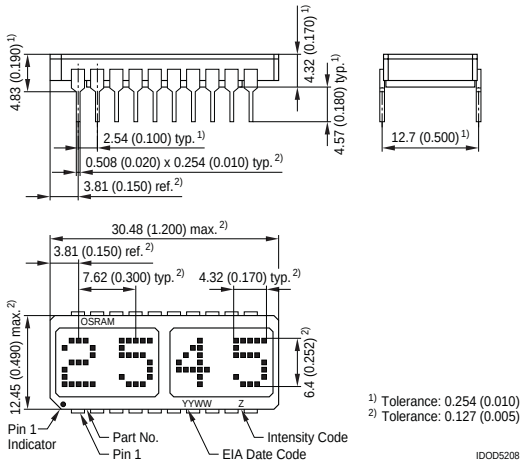


Figure 3: ISD 201X

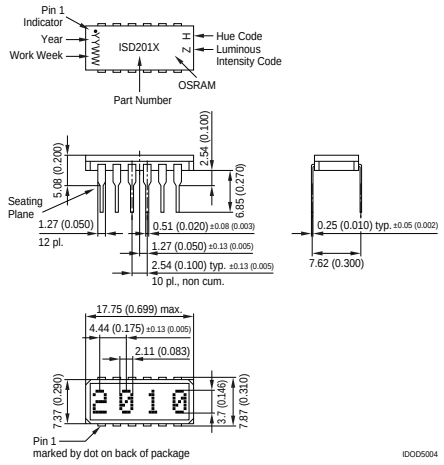
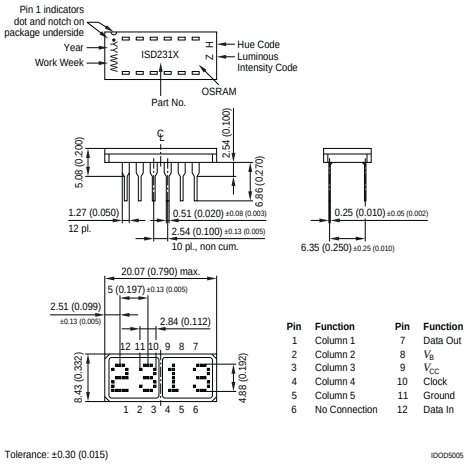


Figure 4: ISD 231X, ISD 235X



Pin	Function	Pin	Function
1	Column 1	7	Data Out
2	Column 2	8	V_B
3	Column 3	9	V_{CC}
4	Column 4	10	Clock
5	Column 5	11	Ground
6	No Connection	12	Data In

Figure 5: SCD 5510XA

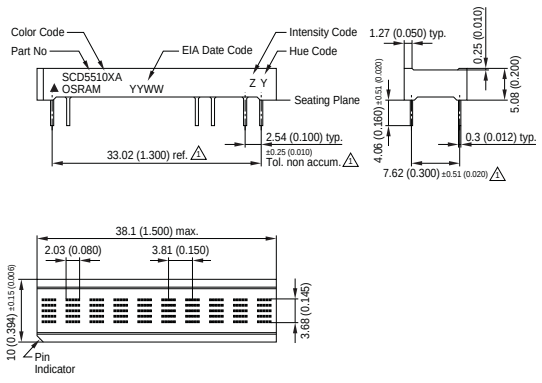
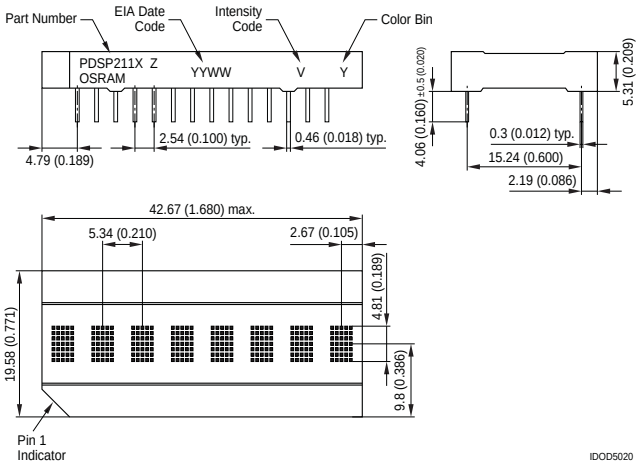


Figure 6: PDSP 211X, HDSP 211X



Dimensions in mm (inch)

Figure 7: PDSP 188X

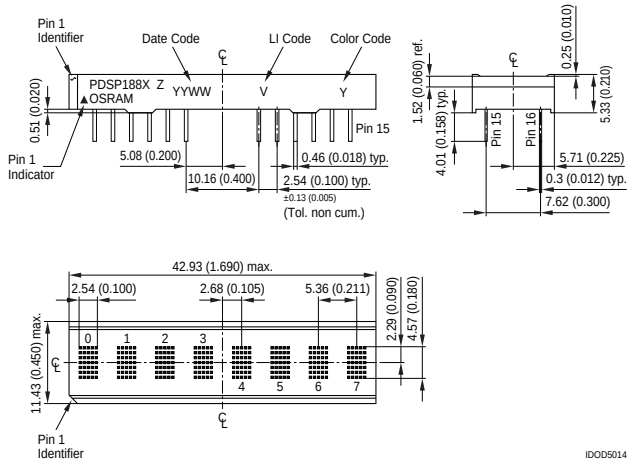


Figure 8: SCE 578X

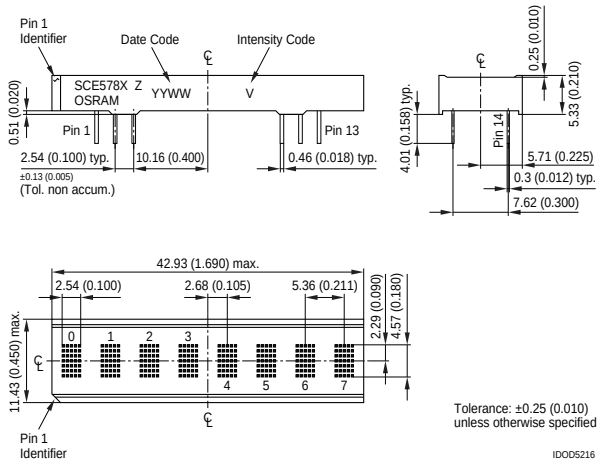


Figure 9: SCD 558XA

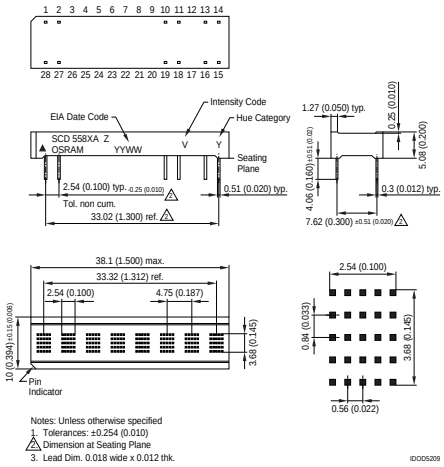


Figure 10: PD 2435, PD 2436, PD 2437

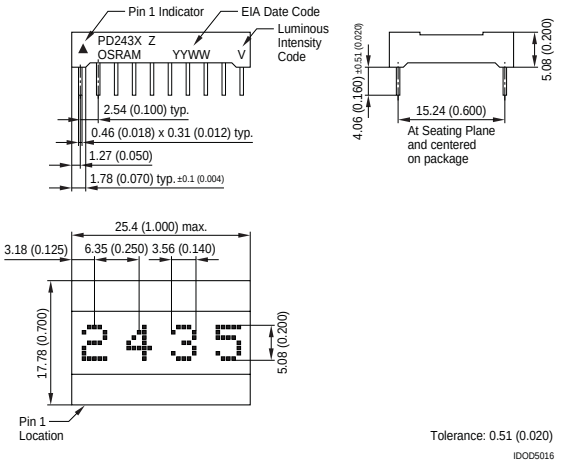


Figure 11: PD 3535, PD 3536, PD 3537

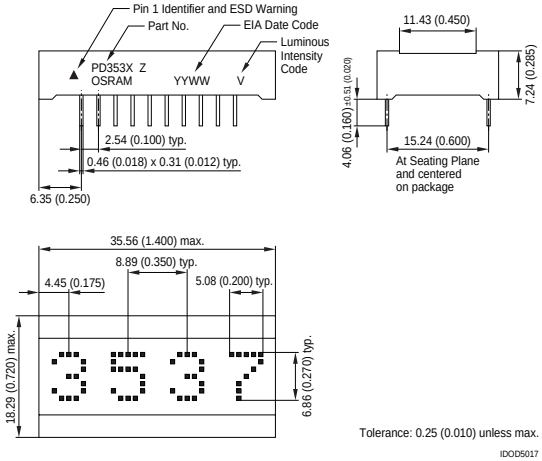
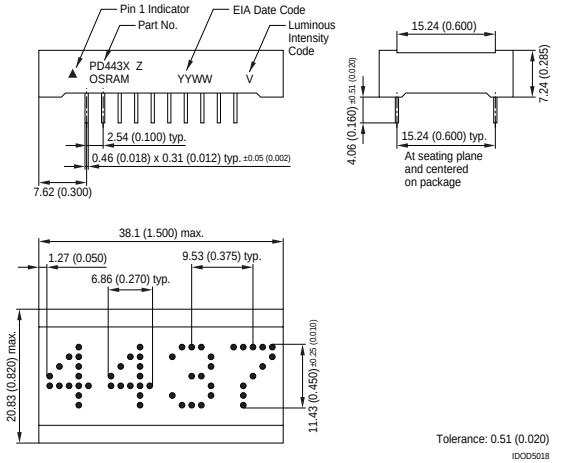


Figure 12: PD 4435, PD 4436, PD 4437



Dimensions in mm (inch)

Figure 13: DLX 1414

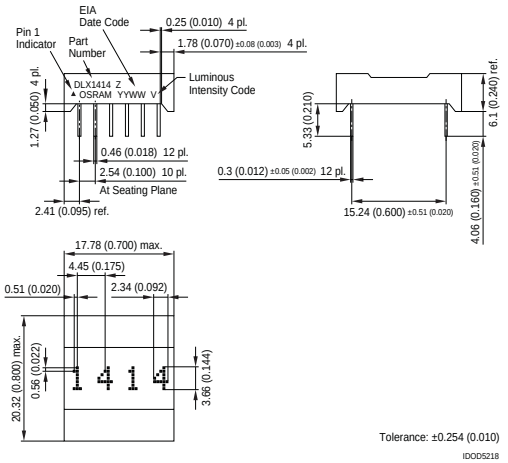


Figure 14: DLX 2416

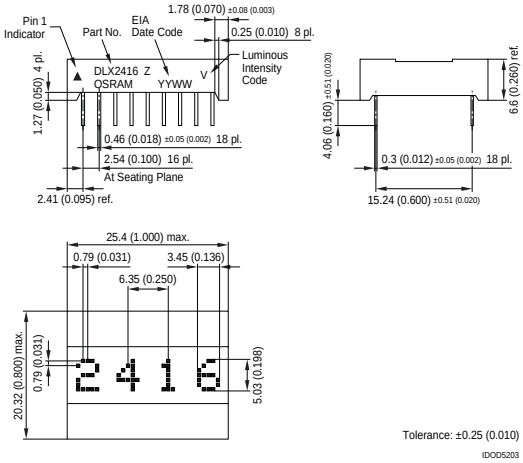


Figure 15: DLX 3416

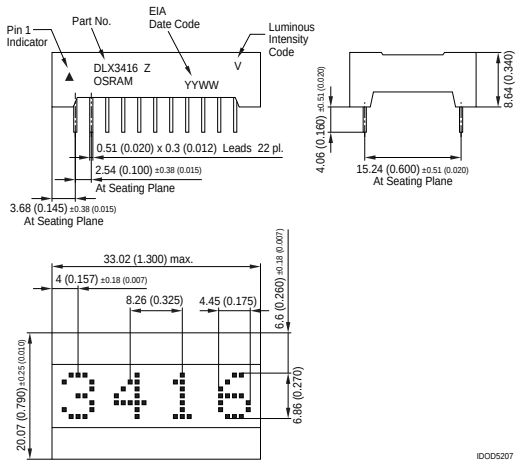


Figure 16: SCF 574X

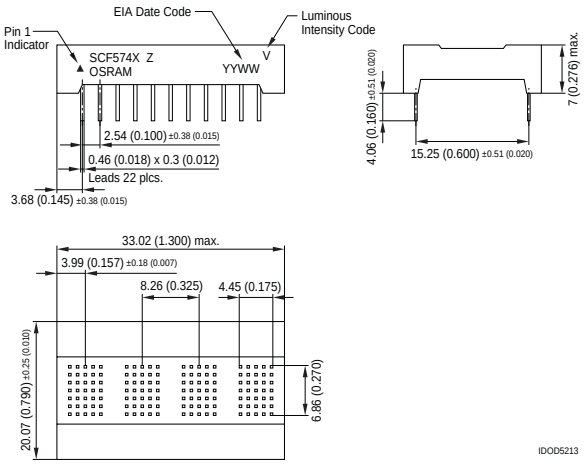
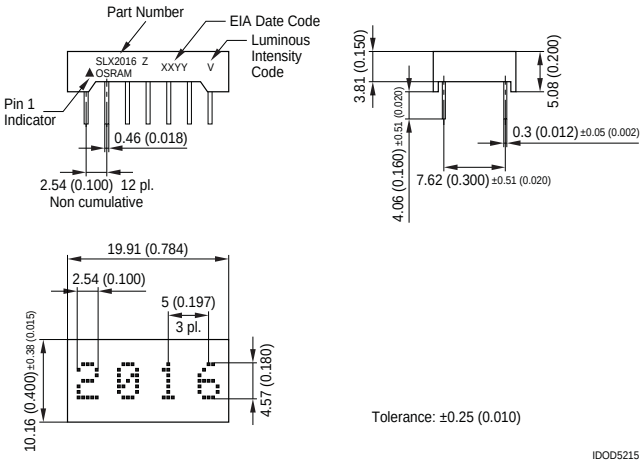


Figure 17: SLX 2016



Dimensions in mm (inch)

Figure 18: SCE 574x

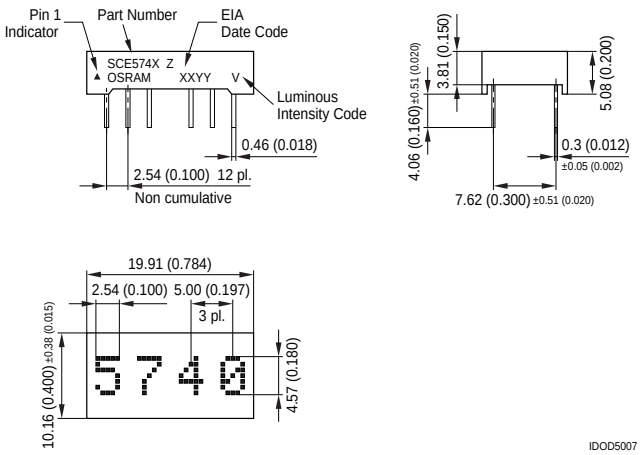


Figure 19: SCE 574xP

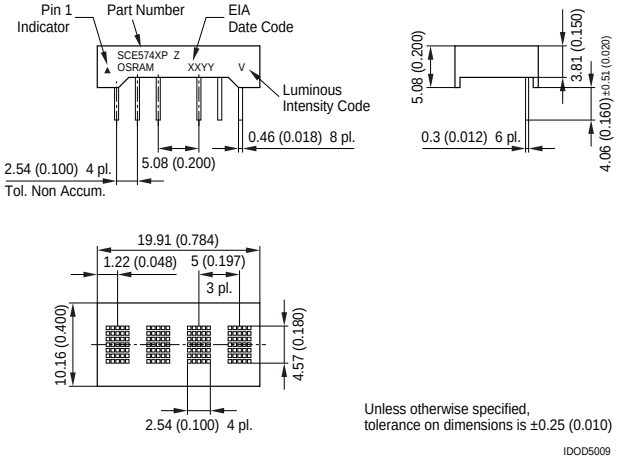


Figure 20: SCE 574xQ

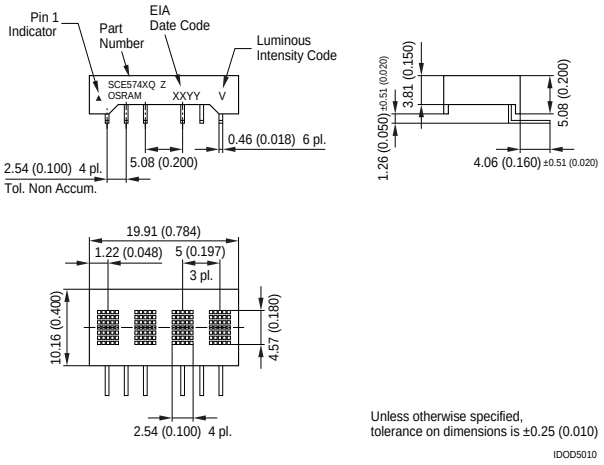


Figure 21: SCDQ 554X P/Q/R

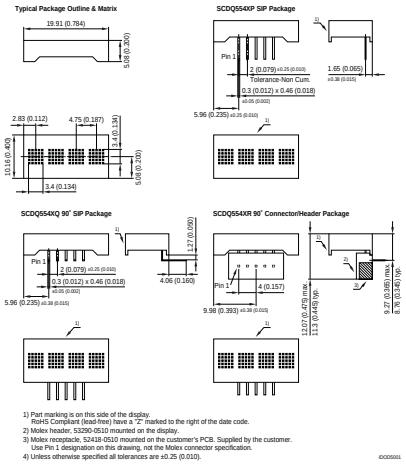


Figure 22: DLO 4135, DLG 4137

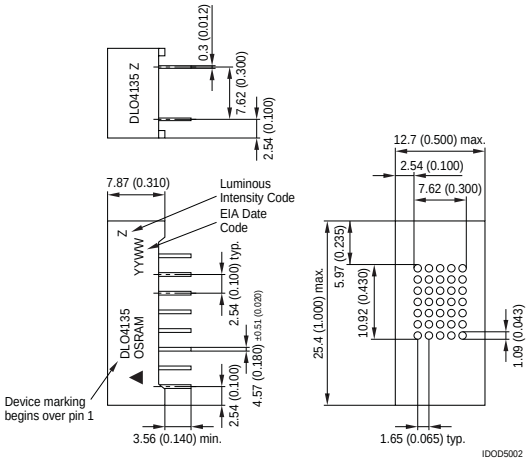
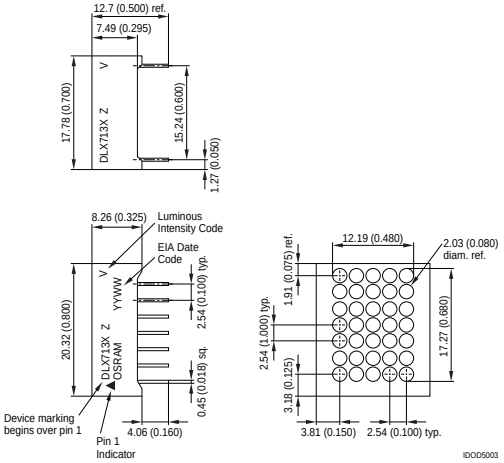



Figure 23: DLO 7135, DLG 7137