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**Intelligent Displays**

**Intelligente Anzeigen**

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## Summary of Types | Typenübersicht

### Ceramic Hi-rel Intelligent Displays

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



**IPD213X Display**  
Parallel Input with a Character Set &  
User Definable Characters  
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#### 4-digit 5x7 Ceramic Hi-rel Intelligent Display (Serial Input / Shift Register Driver)



**ISD201X Display**  
Serial Input with a shift register driver  
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**ISD231X Display**  
Serial Input with a shift register driver  
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**ISD235X Display**  
Serial Input with a shift register driver  
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**IPD254XA Display**  
Parallel Input with a character set  
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### 10-digit Plastic Package Intelligent Displays

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



**SCD5510XA Display**  
Serial Input with a Character RAM  
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### 8-digit Plastic Package Intelligent Displays

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



**HDSP211XS Display**  
Parallel Input with a Character Set &  
User Definable Characters  
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**PDSP211X Display**  
Parallel Input with a Character Set  
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## Summary of Types | Typenübersicht

### 8-digit Plastic Package Intelligent Displays

#### 8-digit Slimline 5X7 Intelligent Display



**PDSP188X Display**  
Parallel Input with a Character Set &  
User Definable Characters  
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**SCE578X Display**  
Serial Input with a Character RAM  
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#### 8-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)



**SCD558XA Display**  
Serial Input with a Character RAM  
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### 4-digit Plastic Package Intelligent Displays

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



**PD243X Display**  
Parallel Input with a Character Set  
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**PD353X Display**  
Parallel Input with a Character Set  
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**PD443X Display**  
Parallel Input with a Character Set  
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#### 4-digit domino series 5X7 Intelligent Display (Parallel Input / Character Set)



**DLX1414 Display**  
Parallel Input with a Character Set  
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**DLX2416 Display**  
Parallel Input with a Character Set  
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**DLX3416 Display**  
Parallel Input with a Character Set  
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### Summary of Types | Typenübersicht

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#### 4-digit Plastic Package Intelligent Displays

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##### 4-digit wide body serial interface 5X7 Intelligent Display



**SCF574X Display**  
Serial Input with a Character RAM  
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##### 4-digit Slimline 5X7 Intelligent Display (Parallel Input / Character Set)



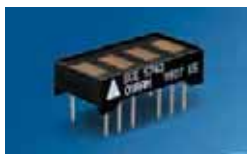
**SLX2016 Display**  
Parallel Input with a Character Set  
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**HDSP200XLP Display**  
Serial Input with a Shift Register  
Driver  
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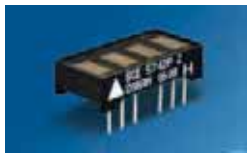
##### 4-digit Slimline 5X7 Intelligent Display with serial interface (Serial Input / Character RAM)



**SCE574X Display**  
Serial Input with a Character RAM  
DIP Package Pinout  
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##### 4-digit Slimline 5X7 Intelligent Display with serial interface and single-inline leads (SIP)



**SCE574XP Display**  
Serial Input with a Character RAM SIP  
Package Pinout  
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### Summary of Types | Typenübersicht

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#### 4-digit Plastic Package Intelligent Displays

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##### 4-digit Slimline 5X7 Intelligent Display with serial interface and 90 degree form single inline leads (Q-SIP)



**SCE574XQ Display**  
Serial Input with a Character RAM 90  
Degree Form SIP Package Pinout  
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#### 4-digit Vertical & Square Format Plastic Package Displays

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##### 4-digit Vertical Format Intelligent Display (Serial Input / Character RAM)



**SCDV554X Display**  
Serial Input with a Character RAM  
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##### 4-digit Square Format Intelligent Displays with straight single inline leads (SIP) (Serial Input / Character RAM)



**SCDQ554XP Display**  
Serial Input with a Character RAM SIP  
Package Pinout  
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##### 4-digit Square Format Intelligent Displays with 90 degree bend single inline leads (Q-SIP) (Serial Input / Character RAM)



**SCDQ554XQ Display**  
Serial Input with a Character RAM SIP  
Package Pinout with 90 Degree  
Formed Leads  
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### Summary of Types | Typenübersicht

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#### 4-digit Vertical & Square Format Plastic Package Displays

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



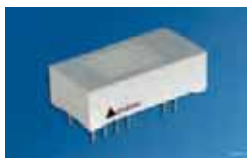
**SCDQ554XR Display**  
Serial Input with a Character RAM  
Single Row Molex Connector  
Interface  
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#### Single digit Plastic Package Intelligent Displays

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##### Single digit Intelligent Displays (Parallel Input / Character Set)



**DLX413X Display**  
Parallel Input with a Character Set  
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**DLX713X Display**  
Parallel Input with a Character Set  
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## 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 alphanumerice 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 Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Pakage size [mm]	Interface	# of dots per character	Temperature range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
<b>8-digit 5x7 Ceramic Hi-rel Intelligent Display (Parallel Input / Character Set &amp; UDC)</b>											
	IPD2131	yellow	8	4.85	42.7 x 9.9	parallel	35 5 x 7	-55 ... 100 / -65 ... 125	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver</li> <li>128 character ASCII character ROM</li> <li>16 user definable characters</li> <li>Rugged ceramic package, hermetically sealed flat glass lens</li> </ul>	Q68000A8904	1
	IPD2132	super red								Q68000A8836	
	IPD2133	high efficiency green								Q68000A8906	
<b>4-digit 5x7 Ceramic Hi-rel Intelligent Display (Serial Input / Shift Register Driver)</b>											
	IPD2545A	high efficiency green	4	6.4	30.48 x 12.45	parallel	35 5 x 7	-55 ... 100 / -65 ... 125	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver</li> <li>128 character ASCII character ROM</li> <li>Rugged ceramic package, hermetically sealed flat glass lens</li> </ul>	Q68000A9883	4
	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	<ul style="list-style-type: none"> <li>Serial input. Easily cascaded for multiple displays</li> <li>Built-in low power CMOS shift register and constant current LED row drivers</li> <li>External column strobing allows use of standard and custom alphanumeric fonts</li> <li>Rugged ceramic package, hermetically sealed flat glass lens</li> </ul>	Q68000A8134	2
	ISD2011	yellow								Q68000A8135	
	ISD2012	super red								Q68000A8136	
	ISD2013	high efficiency green								Q68000A8137	
	ISD2310	hyper-red	4	4.88	20.07 x 8.43	serial shift register	35 5 x 7	-55 ... 100 / -65 ... 125	<ul style="list-style-type: none"> <li>Serial input. Easily cascaded for multiple displays</li> <li>Built-in low power CMOS shift register and constant current LED row drivers</li> <li>External column strobing allows use of standard and custom alphanumeric fonts</li> <li>Rugged ceramic package, hermetically sealed flat glass lens</li> </ul>	Q68000A8138	3
	ISD2311	yellow								Q68000A8139	
	ISD2312	super red								Q68000A8140	
	ISD2313	high efficiency green								Q68000A8141	
	ISD2351	yellow	4	4.88	20.07 x 8.43	serial shift register	35 5 x 7	-55 ... 100 / -65 ... 125	<ul style="list-style-type: none"> <li>Sunlight viewable</li> <li>Serial input. Easily cascaded for multiple displays</li> <li>Built-in low power CMOS shift register and constant current LED row drivers</li> <li>External column strobing allows use of standard and custom alphanumeric fonts</li> <li>Rugged ceramic package, hermetically sealed flat glass lens</li> </ul>	Q68000A8142	3
	ISD2352	super red								Q68000A8143	
	ISD2353	high efficiency green								Q68000A8144	

10-digit Plastic Package Intelligent Displays

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Package size [mm]	Interface	Viewing angle x/y-axis [deg.]	# of dots per character	Temperature range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
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10-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)

	SCD55104 A	high efficiency green	10	3.68	38.1 x 3.68	serial	55 / 65	25 5 x 5	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>• Optimum display surface efficiency,</li> <li>• Lower Power - 30% less than 5X7 dot matrix,</li> <li>• High speed serial data input - 5MHz,</li> <li>• Readable from 6 feet (1.8 meters),</li> <li>• Attributes: 250 bit RAM for user definable characters, Eight dimming levels, Power down mode, Hardware/software CLEAR function, Lamp test.</li> <li>• Internal or external mux clock.</li> </ul>	Q68100A0992	5
	SCD55103 A	green									Q68100A0991	
	SCD55102 A	super red									Q68100A0990	
	SCD55101 A	yellow									Q68100A0989	
	SCD55100 A	red									Q68100A0988	




8-digit Plastic Package Intelligent Displays

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Pakage size [mm]	Interface	Viewing angle x/y-axis [deg.]	# of dots per character	Temperature range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
<b>8-digit wide body 5X7 Intelligent Display (Parallel Input)</b>												
	HDSP2110 S	hyper-red	8	5.1	42.67 x 19.58	parallel	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>128 ASCII character ROM,</li> <li>16 user definable characters,</li> </ul>	Q68000A8560	6
	HDSP2111 S	yellow									Q68000A8561	
	HDSP2112 S	super red									Q68000A8562	
	HDSP2113 S	green									Q68000A8563	
	HDSP2114 S	high efficiency green									Q68000A8564	
	HDSP2115 S	orange									Q68000A8907	
	PDSP2110	hyper-red	8	5.1	42.67 x 19.58	parallel	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>256 ASCII character ROM,</li> </ul>	Q68000A8474	6
	PDSP2111	yellow									Q68000A8503	
	PDSP2112	super red									Q68000A8504	
	PDSP2113	green									Q68000A8505	
	PDSP2114	high efficiency green									Q68000A8533	
<b>8-digit Slimline 5X7 Intelligent Display</b>												
	PDSP1880	hyper-red	8	4.57	42.93 x 11.43	parallel	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>128 ASCII character ROM,</li> <li>16 user definable characters,</li> </ul>	Q68000A9105	7
	PDSP1881	yellow									Q68000A9106	
	PDSP1882	super red									Q68000A9107	
	PDSP1883	green									Q68000A9108	
	PDSP1884	high efficiency green									Q68000A9109	
	SCE5780	hyper-red	8	4.57	42.93 x 11.43	parallel	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Readable from 8 Feet (2.5 meters)</li> <li>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.</li> </ul>	Q68000A9100	8
	SCE5781	yellow									Q68000A9101	
	SCE5782	super red									Q68000A9102	
	SCE5783	green									Q68000A9103	
	SCE5784	high efficiency green									Q68000A9104	
	SCE5785	soft orange									Q68100A0550	
	SCE5786	InGaAlP red									Q68100A1435	
<b>8-digit Slimline 5X5 Intelligent Display (Serial Input / Character RAM)</b>												
	SCD5584A	high efficiency green	8	3.68	38.1 x 10	serial	55 / 65	25 x 5	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Optimum display surface efficiency,</li> <li>Lower Power - 30% less than 5X7 dot matrix,</li> <li>High speed serial data input - 5MHz,</li> <li>Readable from 6 feet (1.8 meters),</li> <li>Attributes: 200-bit RAM for user definable characters, Eight dimming levels, Power down</li> </ul>	Q68100A1000	9
	SCD5583A	green									Q68100A0998	
	SCD5582A	super red									Q68100A0997	
	SCD5581A	yellow									Q68100A0996	
	SCD5580A	hyper-red									Q68100A0994	




## 4-digit Plastic Package Intelligent Displays

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Pak- kage size [mm]	Inter- face	Viewing angle x/ y-axis [deg.]	# of dots per character	Tempera- ture range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
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### 4-digit wide body 5X7 Intelligent Display (Parallel Input / Character Set)

	PD2435	high efficiency red	4	5.08	25.4 x 17.78	parallel	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>3 dimming levels plus blank</li> <li>Blinking cursor, character, lamp test functions</li> <li>Internal or external mux clock.</li> <li>End stackable.</li> </ul>	Q68000A3561	10
	PD2436	red									Q68000A8366	
	PD2437	green									Q68000A3562	
	PD3535	high efficiency red	4	6.86	35.56 x 18.29	parallel	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>3 dimming levels plus blank</li> <li>Blinking cursor, character, lamp test functions</li> <li>Internal or external mux clock</li> <li>End stackable.</li> </ul>	Q68000A7964	11
	PD3536	red									Q68000A8365	
	PD3537	bright green									Q68000A7965	
	PD4435	high efficiency red	4	11.43	38.1 x 20.83	parallel	55 / 65	35 x 7	-40 ... 70 / -40 ... 100	<ul style="list-style-type: none"> <li>Reflector product produces large solid pixels with no cross-talk.</li> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>3 dimming levels plus blank</li> <li>Blinking cursor, character, lamp test functions</li> <li>Internal or external clock</li> <li>end stackable.</li> </ul>	Q68000A8367	12
	PD4436	red									Q68000A8368	
	PD4437	bright green									Q68000A8369	


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

	DLG1414	green	4	3.7	17.78 x 20.32	parallel	50 / 75	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>End stackable.</li> </ul>	Q68000A8093	13
	DLO1414	high efficiency red									Q68000A8092	
	DLR1414	red									Q68000A8091	
	DLG2416	green	4	5	25.4 x 20.32	parallel	50 / 75	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>End stackable.</li> </ul>	Q68000A8096	14
	DLO2416	high efficiency red									Q68000A8095	
	DLR2416	red									Q68000A8094	
	DLG3416	green	4	6.9	33.02 x 20.07	parallel	50 / 75	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>End stackable.</li> </ul>	Q68000A8099	15
	DLO3416	high efficiency red									Q68000A8098	
	DLR3416	red									Q68000A8097	



## Intelligent Displays | Intelligente Anzeigen

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Package size [mm]	Interface	Viewing angle x/y-axis [deg.]	# of dots per character	Temperature range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
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### 4-digit wide body serial interface 5X7 Intelligent Display

	SCF5740	red	4	6.86	33.02 x 20.07	serial	55 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>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.</li> </ul>	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	50 / 75	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Optimum display surface efficiency</li> <li>Very close multi-line spacing, 0.4" centers.</li> <li>128 special ASCII character ROM</li> <li>Clear function that clears character memory</li> <li>True blanking for intensity dimming applications</li> </ul>	Q68000A8642	17
	SLO2016	high efficiency red									Q68000A8641	
	SLR2016	red									Q68000A8640	
	SLY2016	yellow									Q68000A8643	
	HDSP2000 LP	red	4	3.7	17.75 x 8.89	shift register	50 / 75	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial input. Easily cascaded for multiple displays.</li> <li>Built-in low power CMOS shift register and constant current LED row drivers.</li> <li>External column strobing allows use of standard and custom alphanumeric fonts.</li> <li>Blanking input for dimming control.</li> </ul>	Q68000A8131	18
	HDSP2001 LP	yellow									Q68000A8304	
	HDSP2002 LP	high efficiency red									Q68000A8132	
	HDSP2003 LP	green									Q68000A8133	

### 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)	55 / 55	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features: Clear Function, Eight Dimming Levels, Peak Current Select, Prescaler Function (External Oscillator Divided by 16 or 1), Internal or External Clock.</li> </ul>	Q68100A1369	19
	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)	50 / 65	35 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters,</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>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)</li> </ul>	Q68100A1483	20
	SCE5744P	high efficiency green									Q68100A1482	
	SCE5743P	green									Q68100A1481	
	SCE5742P	super red									Q68100A1480	
	SCE5741P	yellow									Q68100A1479	

## Intelligent Displays | Intelligente Anzeigen

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Pak- age size [mm]	Inter- face	Viewing angle x/ y-axis [deg.]	# of dots per cha- racter	Tempera- ture range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
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### 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 single inline leads (Q- SIP)	55 / 55	35 5 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>• Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>• Built-in Decoders, Multiplexers and LED Drivers</li> <li>• 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)</li> </ul>	Q68100A1488	21
	SCE5744Q	HEG									Q68100A1487	
	SCE5743Q	green									Q68100A1486	
	SCE5742Q	super red									Q68100A1485	
	SCE5741Q	yellow									Q68100A1484	
	SCE5740Q	red									Q68100A1440	


## 4-digit Vertical & Square Format Plastic Package Displays

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Package size [mm]	Interface	Viewing angle x/y-axis [deg.]	# of dots per character	Temperature range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
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### 4-digit Vertical Format Intelligent Display (Serial Input / Character RAM)

	SCDV5544	high efficiency green	4	3.12	19.91 x 10.16	parallel	55 / 55	25 5 x 5	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>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)</li> </ul>	Q68000A8894	22
	SCDV5543	green									Q68000A8893	
	SCDV5542	super red									Q68000A8892	
	SCDV5541	yellow									Q68000A8891	
	SCDV5540	red									Q68000A8890	


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

	SCDQ5544 P	high efficiency green	4	3.4	19.91 x 10.16	parallel	55 / 55	25 5 x 5	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>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)</li> </ul>	Q68100A1474P	25
	SCDQ5543 P	green									Q68100A1473P	
	SCDQ5542 P	super red									Q68100A1078P	
	SCDQ5541 P	yellow									Q68100A1472P	

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

	SCDQ5544 Q	high efficiency green	4	3.4	19.91 x 10.16	parallel	55 / 55	25 5 x 5	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>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)</li> </ul>	Q68100A1474Q	25
	SCDQ5543 Q	green									Q68100A1473Q	
	SCDQ5542 Q	super red									Q68100A1078Q	
	SCDQ5541 Q	yellow									Q68100A1472Q	



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

	SCDQ5544 R	high efficiency green	4	3.4	19.91 x 10.16	parallel	55 / 55	25 5 x 5	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>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)</li> </ul>	Q68100A1474R	25
	SCDQ5543 R	green									Q68100A1473R	
	SCDQ5542 R	super red									Q68100A1078R	
	SCDQ5541 R	yellow									Q68100A1472R	

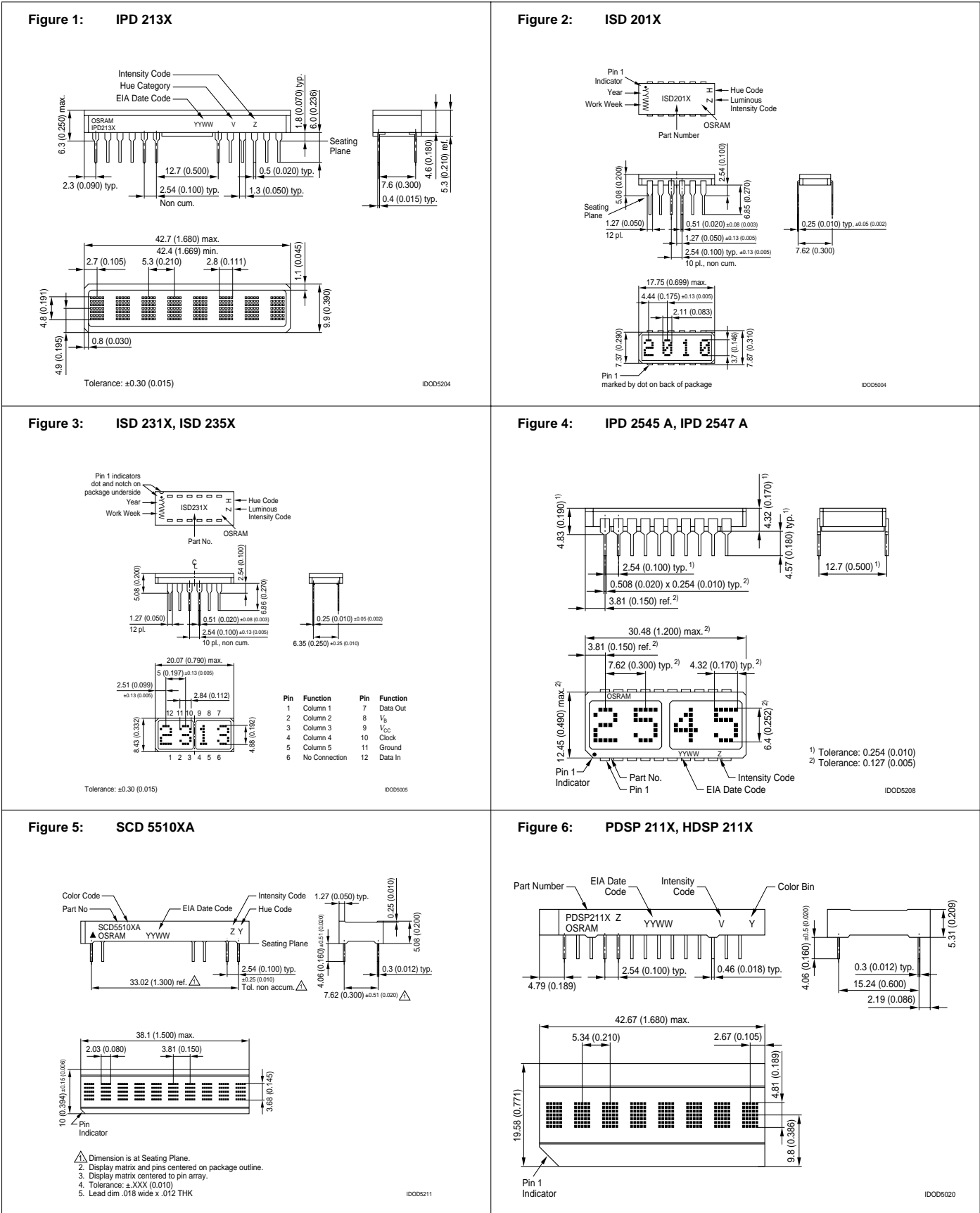
Single digit Plastic Package Intelligent Displays

Package Gehäuse	Type Bezeichnung	Emission Color	# of chars.	Char. height [mm]	Pak- kage size [mm]	Inter- face	Viewing angle x/ y-axis [deg.]	# of dots per character	Tempera- ture range Operating / Storage [°C]	Features	Ordering Code Bestellnummer	Fig. #
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Single digit Intelligent Displays (Parallel Input / Character Set)

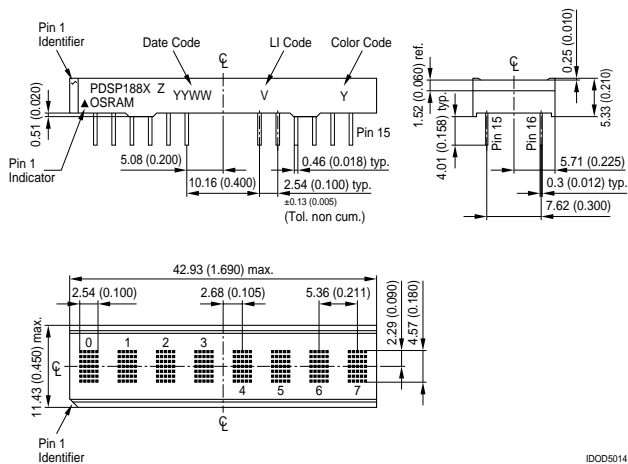
	DLG4137	green	1	17.27	25.4 x 12.7	paral- lel	75 / 75	35 5 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>• Built-in CMOS decoder, multiplexer, memory and driver.</li> <li>• Reflector product produces large solid pixels with no cross-talk.</li> <li>• 4 programmable brightness levels.</li> <li>• Built-in 96 ASCII character ROM.</li> <li>• XY stackable.</li> </ul>	Q68000A4299	23
	DLO4135	super red									Q68000A4297	
	DLG7137	green	1	10.92	20.32 x 17.78	paral- lel	75 / 75	35 5 x 7	-40 ... 85 / -40 ... 100	<ul style="list-style-type: none"> <li>• Built-in CMOS decoder, multiplexer, memory and driver.</li> <li>• Reflector product produces large solid pixels with no cross-talk.</li> <li>• 4 programmable brightness levels.</li> <li>• Built-in 96 ASCII character ROM.</li> <li>• XY stackable.</li> </ul>	Q68000A7159	24
	DLO7135	super red									Q68000A7157	

Outline drawings - Dimensions in mm (inch) | Outline drawings - Dimensions in mm (inch)

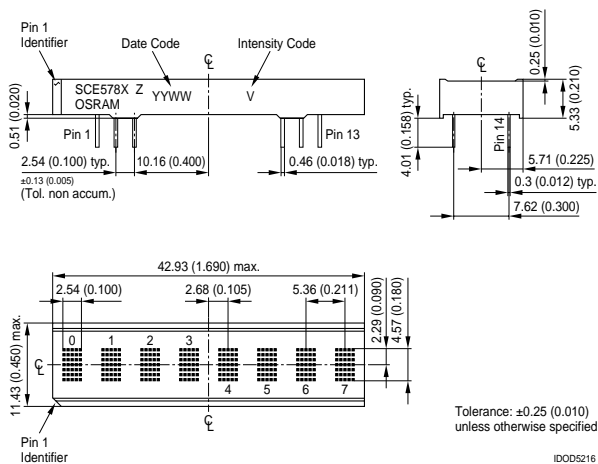


Outline drawings - Dimensions in mm (inch) | Outline drawings - Dimensions in mm (inch)

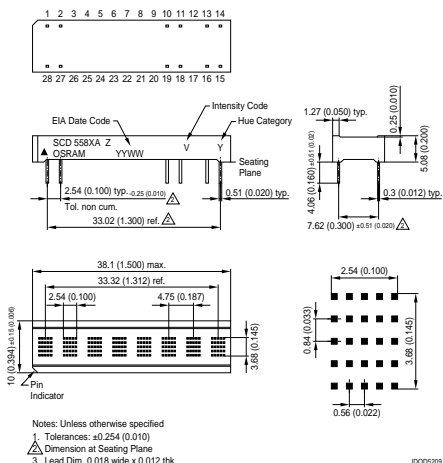
**Figure 7: PDSP188X**



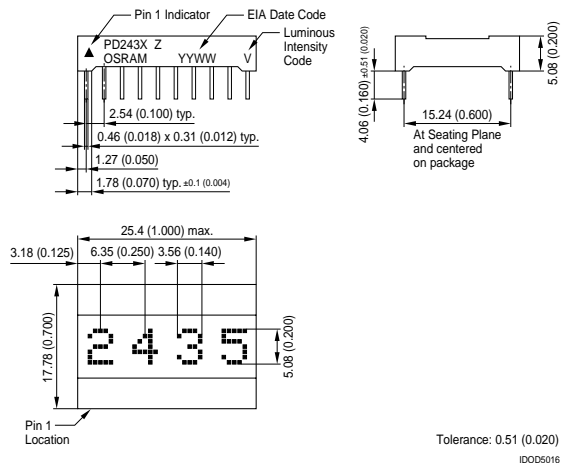
**Figure 8: SCE578X**



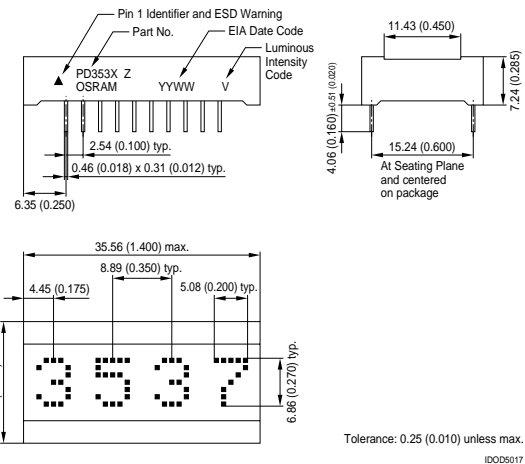
**Figure 9: SCD 558XA**



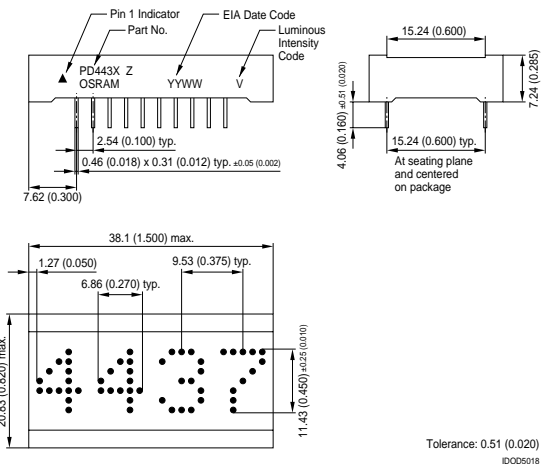
**Figure 10: PD 2435, PD 2436, PD 2437**



**Figure 11: PD 3535, PD 3536, PD 3537**

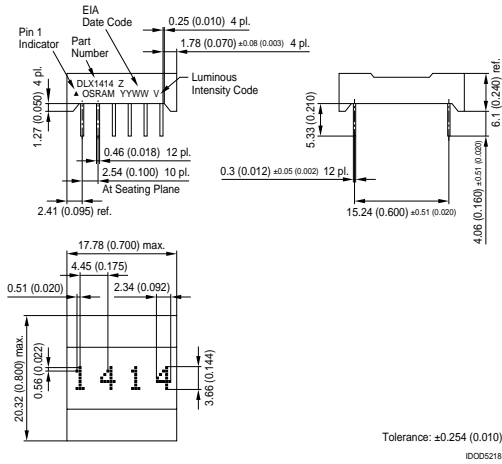


**Figure 12: PD 4435, PD 4436, PD 4437**

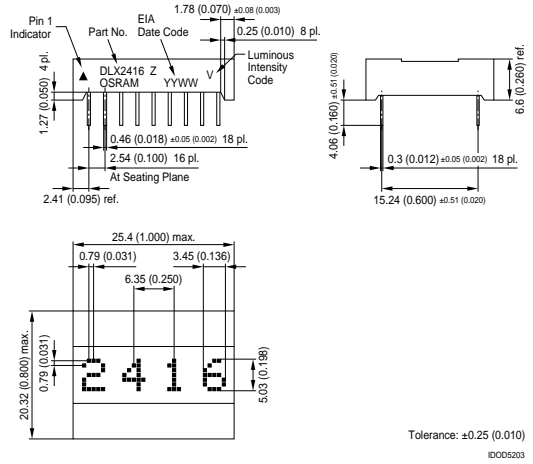


Outline drawings - Dimensions in mm (inch) | Outline drawings - Dimensions in mm (inch)

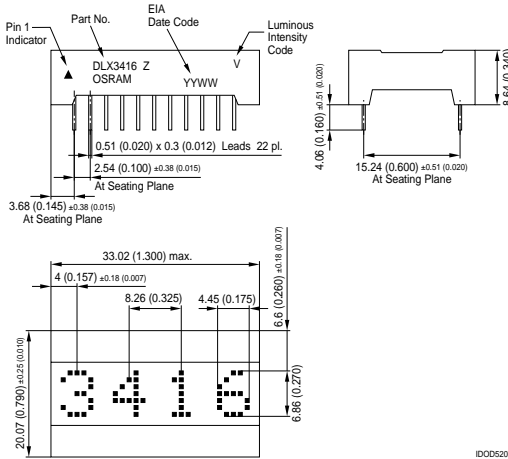
**Figure 13: DLX 1414**



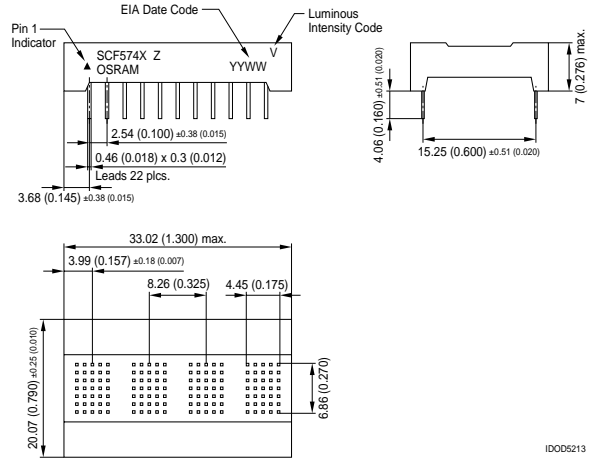
**Figure 14: DLX 2416**



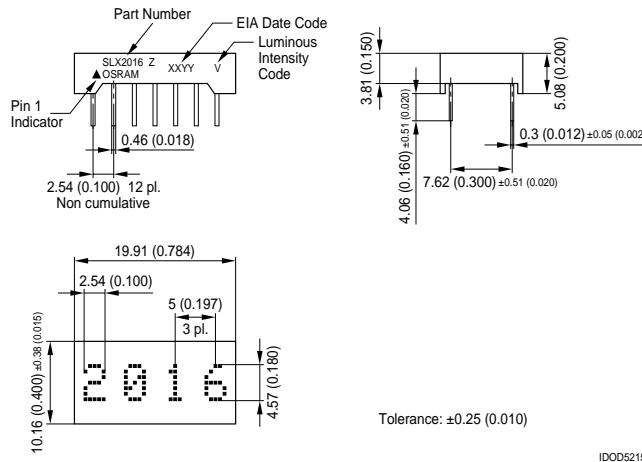
**Figure 15: DLX 3416**



**Figure 16: SCF 574X**

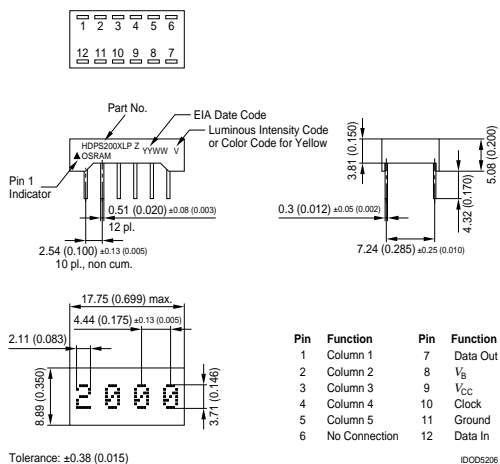


**Figure 17: SLX 2016**

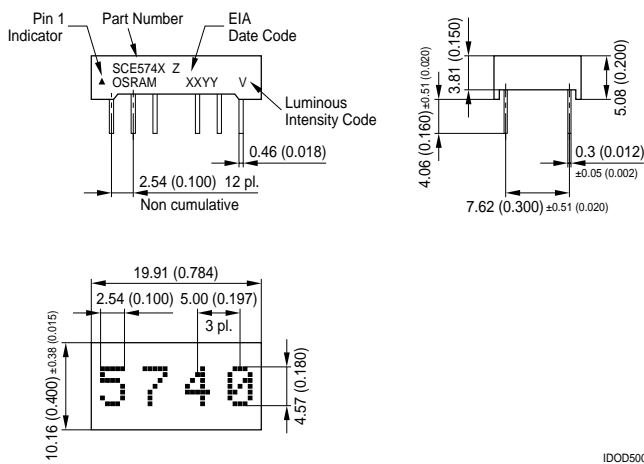


Outline drawings - Dimensions in mm (inch) | Outline drawings - Dimensions in mm (inch)

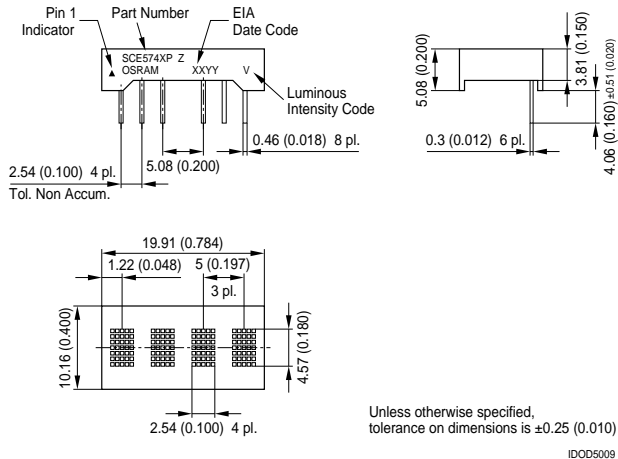
**Figure 18: HDSP 200XLP**



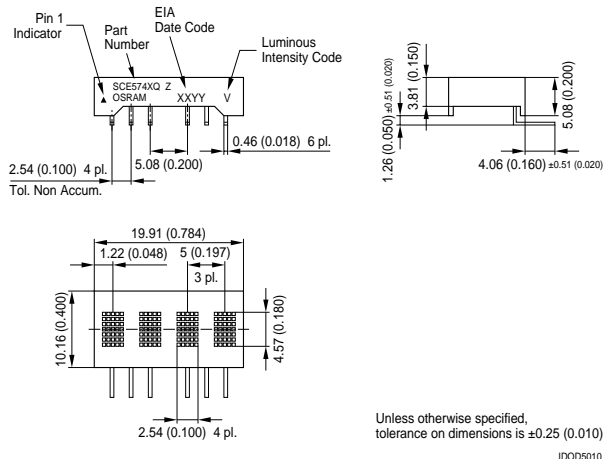
**Figure 19: SCE 574x**



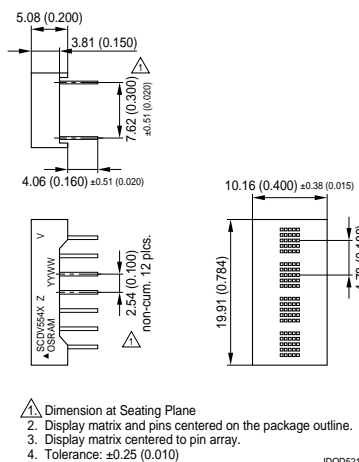
**Figure 20: SCE 574xP**



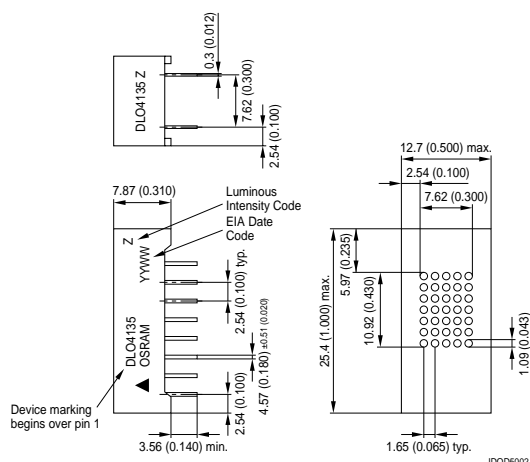
**Figure 21: SCE 574xQ**



**Figure 22: SCDV 554X**

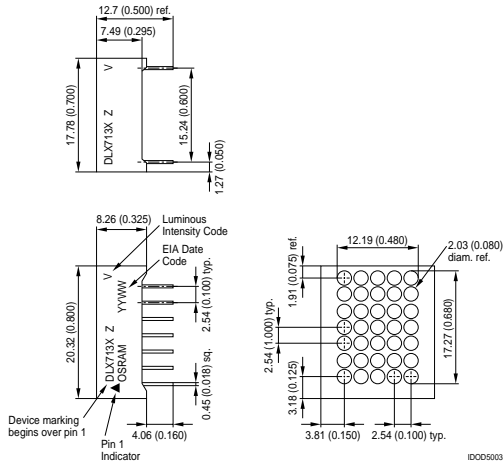


**Figure 23: DLO 4135, DLG 4137**



Outline drawings - Dimensions in mm (inch) | Outline drawings - Dimensions in mm (inch)

**Figure 24: DLO 7135, DLG 7137**



**Figure 25: SCDQ 554X P/Q/R**

