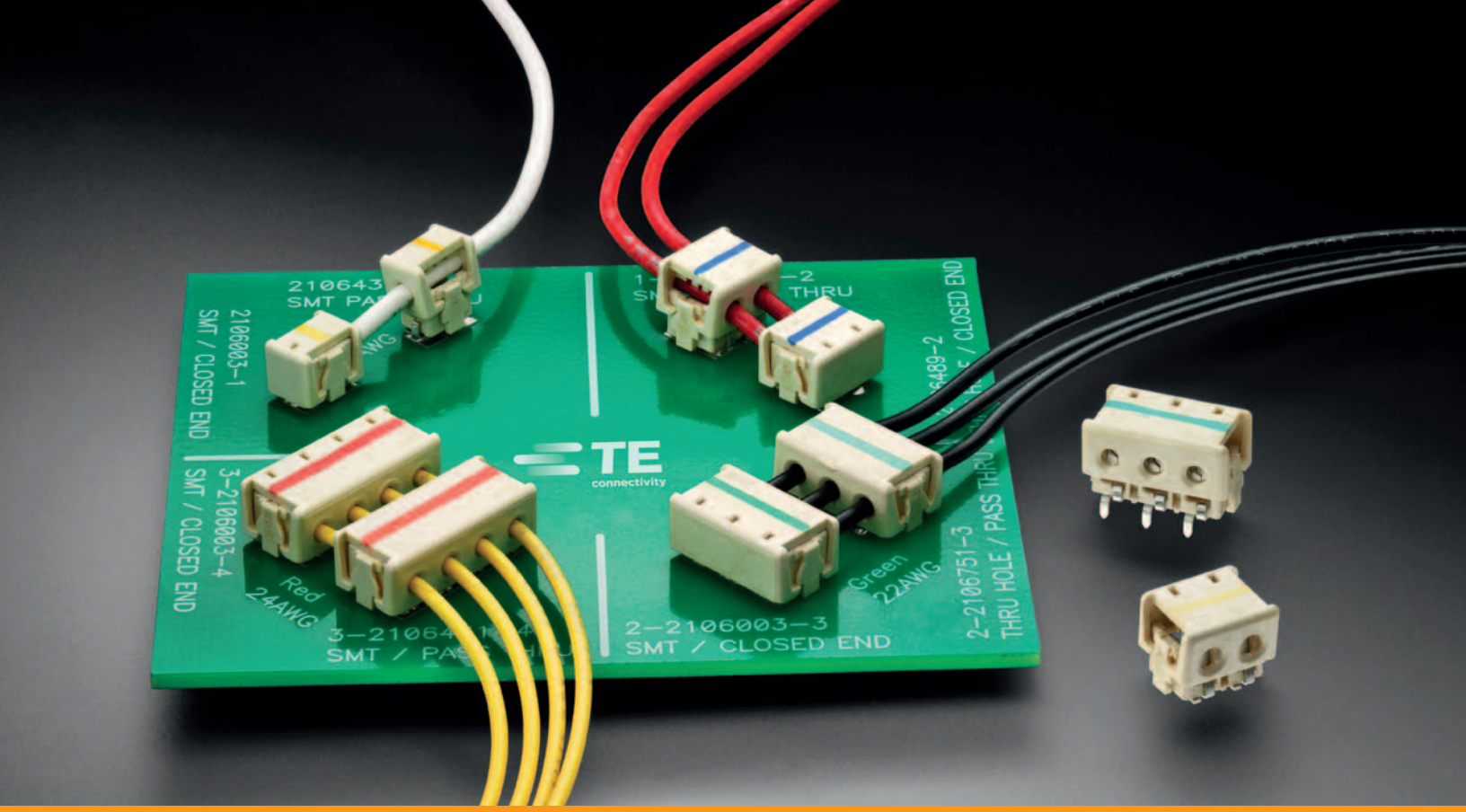


IDC SSL Connector

The IDC SSL connector series are insulation displacement (IDC) SMT and thru-hole wire-to-board connectors designed for quick, tool-less termination of discrete wires onto LED printed circuit boards. These connectors use TE Connectivity (TE) proven insulation displacement technology to provide a robust, stable electrical and mechanical power connection to single or multiple printed circuit boards in solid state lighting and non-lighting applications.

KEY FEATURES

- Available in 1, 2, 3 and 4 positions
- SMT and thru-hole
- Closed end and feed thru
- 18-24 AWG stranded and solid wire
- Dual IDC slots for redundancy
- Wire placement “viewing” window
- Wire gauge color coded
- Tool-less termination

APPLICATIONS

- LED lighting controls
- General illumination LED fixtures
- Connecting strings of pcb LED light modules
- Non-lighting wire-to-board applications

IDC SSL Connector

LIGHTING APPLICATIONS



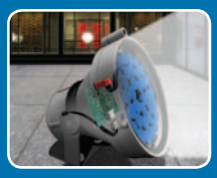
Channel/Sign



Emergency



Digital Signage


Architectural


Street & Stadium


Indoor


Office


Commercial Refrigeration

ELECTRICAL

Operating Current : 8 AMPS (18 AWG only)

Maximum Operating Voltage : 400VAC / 400VDC

Dielectric Withstanding Voltage : 1500VAC

MECHANICAL

Operating Temperature : -40°C to 105°C

Wire Retention : 5 lbs. minimum

MATERIALS

Housings : 94 V0 rated high temperature resistant thermoplastic

Contacts : Tin over nickel plated copper alloy

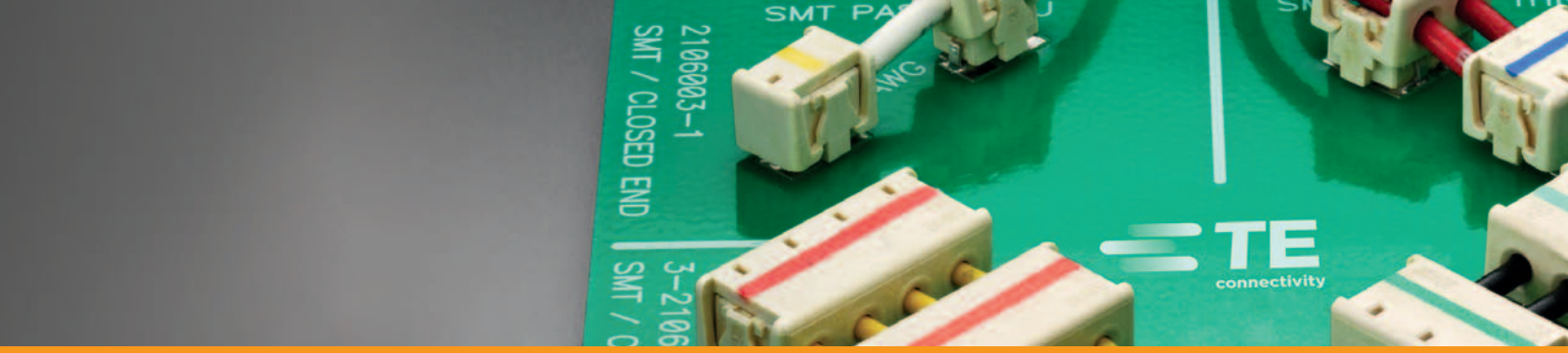
STANDARDS AND SPECIFICATIONS

UL 1977

Product Specification : 108-2404

Application Specification : 114-13266

Tape and Reel Packaging per EIA-481

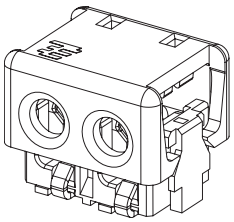


PRODUCT DIMENSIONS

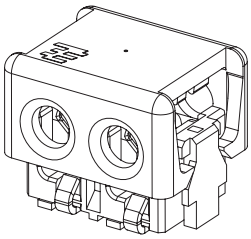
Closed End IDC SSL Connectors (SMT)

PART NUMBER	POSITION	WIRE SIZE	DIM "D"	COLOR
2106003-1	1	18 AWG	5.70 [.224]	YELLOW
2106003-2	2	18 AWG	9.70 [.382]	YELLOW
2106003-3	3	18 AWG	13.70 [.539]	YELLOW
2106003-4	4	18 AWG	17.70 [.697]	YELLOW
1-2106003-1	1	20 AWG	5.70 [.224]	BLUE
1-2106003-2	2	20 AWG	9.70 [.382]	BLUE
1-2106003-3	3	20 AWG	13.70 [.539]	BLUE
1-2106003-4	4	20 AWG	17.70 [.697]	BLUE
2-2106003-1	1	22 AWG	5.70 [.224]	GREEN
2-2106003-2	2	22 AWG	9.70 [.382]	GREEN
2-2106003-3	3	22 AWG	13.70 [.539]	GREEN
2-2106003-4	4	22 AWG	17.70 [.697]	GREEN
3-2106003-1	1	24 AWG	5.70 [.224]	RED
3-2106003-2	2	24 AWG	9.70 [.382]	RED
3-2106003-3	3	24 AWG	13.70 [.539]	RED
3-2106003-4	4	24 AWG	17.70 [.697]	RED

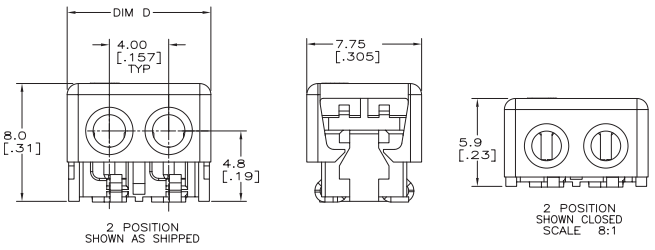
Closed End



Feed Thru



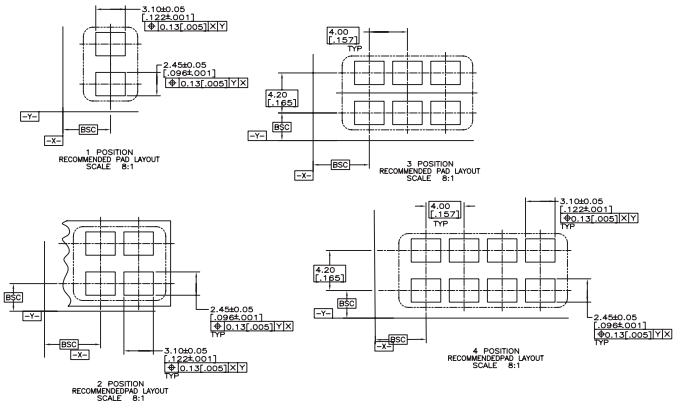
Product Dimensions



Feed Thru IDC SSL Connectors (SMT)

PART NUMBER	POSITION	WIRE SIZE	DIM "D"	COLOR
2106431-1	1	18 AWG	5.70 [.224]	YELLOW
2106431-2	2	18 AWG	9.70 [.382]	YELLOW
2106431-3	3	18 AWG	13.70 [.539]	YELLOW
2106431-4	4	18 AWG	17.70 [.697]	YELLOW
1-2106431-1	1	20 AWG	5.70 [.224]	BLUE
1-2106431-2	2	20 AWG	9.70 [.382]	BLUE
1-2106431-3	3	20 AWG	13.70 [.539]	BLUE
1-2106431-4	4	20 AWG	17.70 [.697]	BLUE
2-2106431-1	1	22 AWG	5.70 [.224]	GREEN
2-2106431-2	2	22 AWG	9.70 [.382]	GREEN
2-2106431-3	3	22 AWG	13.70 [.539]	GREEN
2-2106431-4	4	22 AWG	17.70 [.697]	GREEN
3-2106431-1	1	24 AWG	5.70 [.224]	RED
3-2106431-2	2	24 AWG	9.70 [.382]	RED
3-2106431-3	3	24 AWG	13.70 [.539]	RED
3-2106431-4	4	24 AWG	17.70 [.697]	RED

Recommended PCB Layout





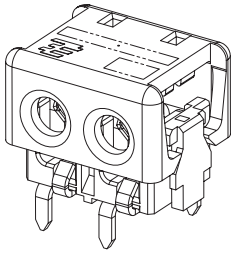
IDC SSL Connector

PRODUCT DIMENSIONS cont.

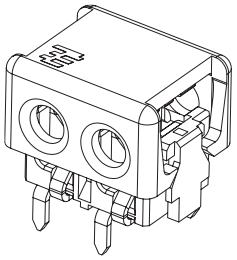
Closed End IDC SSL Connectors (Thru-Hole)

PART NUMBER	POSITION	WIRE SIZE	DIM "D"	COLOR
2106489-1	1	18 AWG	5.70 [.224]	YELLOW
2106489-2	2	18 AWG	9.70 [.382]	YELLOW
2106489-3	3	18 AWG	13.70 [.539]	YELLOW
2106489-4	4	18 AWG	17.70 [.697]	YELLOW
1-2106489-1	1	20 AWG	5.70 [.224]	BLUE
1-2106489-2	2	20 AWG	9.70 [.382]	BLUE
1-2106489-3	3	20 AWG	13.70 [.539]	BLUE
1-2106489-4	4	20 AWG	17.70 [.697]	BLUE
2-2106489-1	1	22 AWG	5.70 [.224]	GREEN
2-2106489-2	2	22 AWG	9.70 [.382]	GREEN
2-2106489-3	3	22 AWG	13.70 [.539]	GREEN
2-2106489-4	4	22 AWG	17.70 [.697]	GREEN
3-2106489-1	1	24 AWG	5.70 [.224]	RED
3-2106489-2	2	24 AWG	9.70 [.382]	RED
3-2106489-3	3	24 AWG	13.70 [.539]	RED
3-2106489-4	4	24 AWG	17.70 [.697]	RED

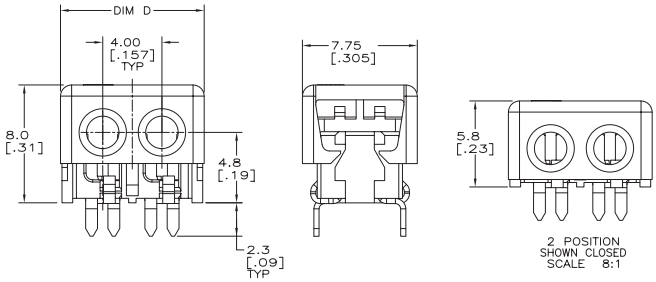
Closed End



Feed Thru



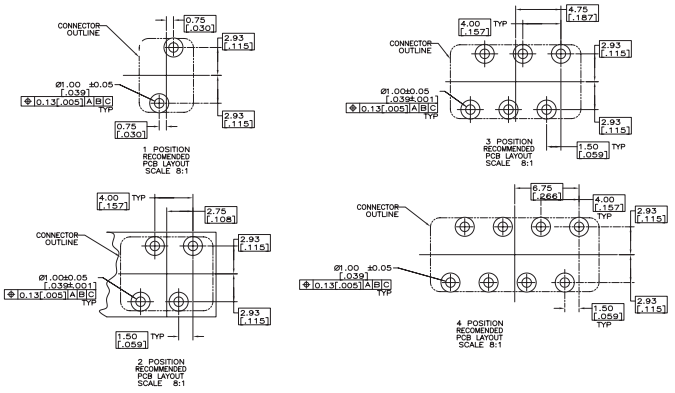
Product Dimensions

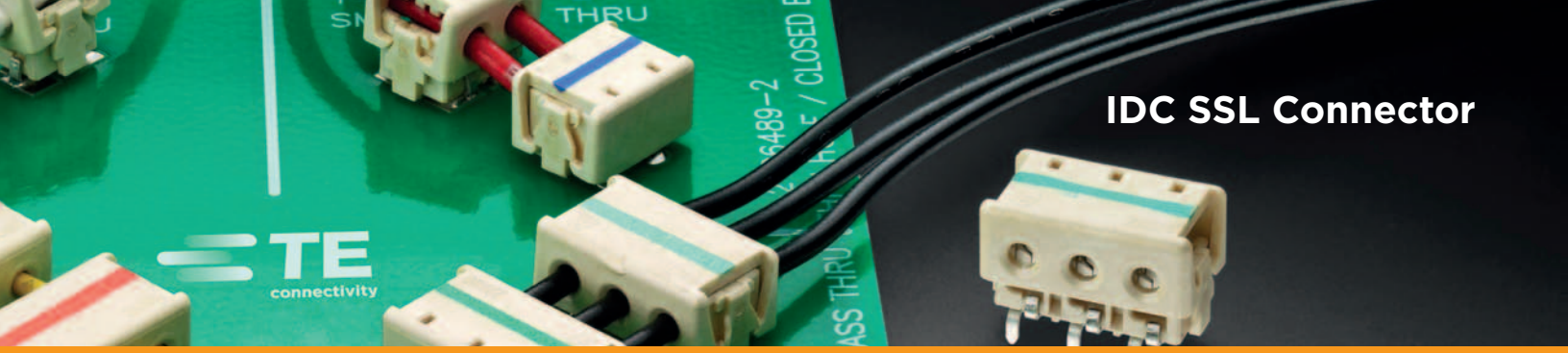


Feed Thru IDC SSL Connectors (Thru-Hole)

PART NUMBER	POSITION	WIRE SIZE	DIM "D"	COLOR
2106751-1	1	18 AWG	5.70 [.224]	YELLOW
2106751-2	2	18 AWG	9.70 [.382]	YELLOW
2106751-3	3	18 AWG	13.70 [.539]	YELLOW
2106751-4	4	18 AWG	17.70 [.697]	YELLOW
1-2106751-1	1	20 AWG	5.70 [.224]	BLUE
1-2106751-2	2	20 AWG	9.70 [.382]	BLUE
1-2106751-3	3	20 AWG	13.70 [.539]	BLUE
1-2106751-4	4	20 AWG	17.70 [.697]	BLUE
2-2106751-1	1	22 AWG	5.70 [.224]	GREEN
2-2106751-2	2	22 AWG	9.70 [.382]	GREEN
2-2106751-3	3	22 AWG	13.70 [.539]	GREEN
2-2106751-4	4	22 AWG	17.70 [.697]	GREEN
3-2106751-1	1	24 AWG	5.70 [.224]	RED
3-2106751-2	2	24 AWG	9.70 [.382]	RED
3-2106751-3	3	24 AWG	13.70 [.539]	RED
3-2106751-4	4	24 AWG	17.70 [.697]	RED

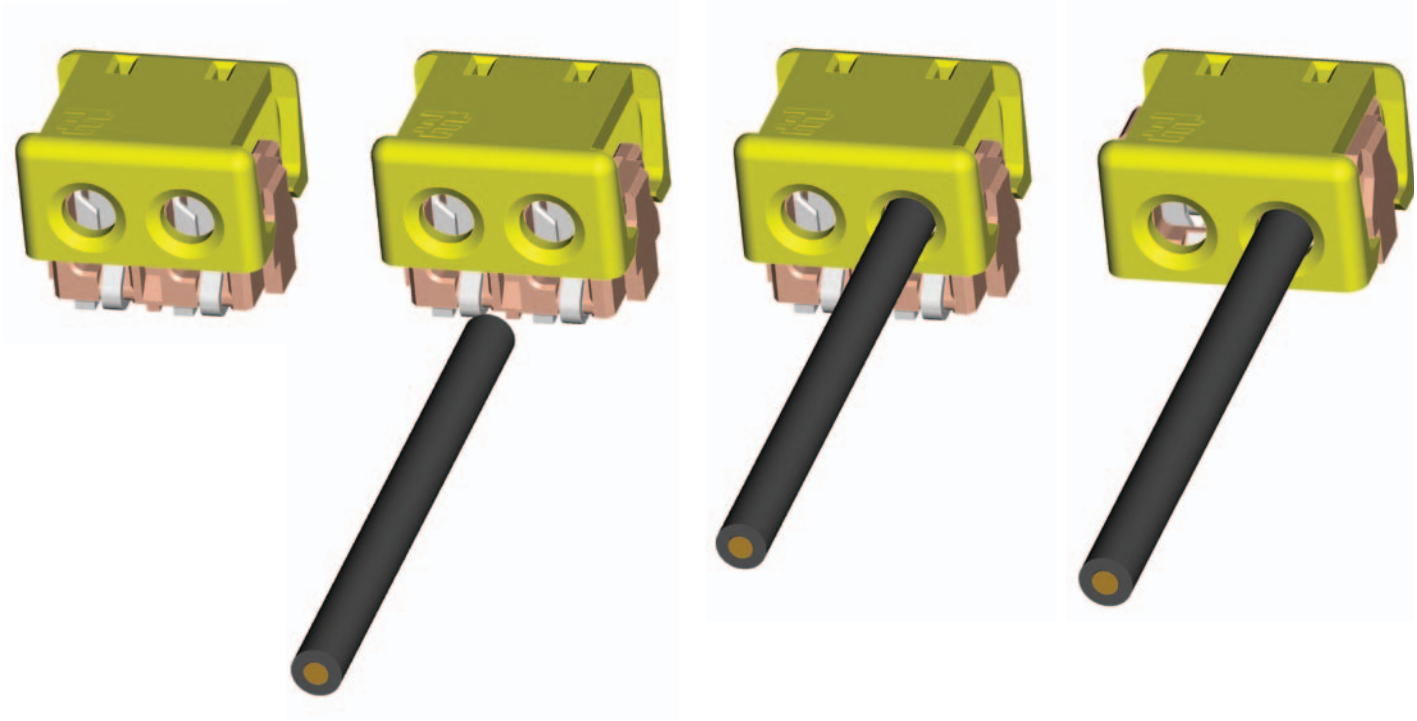
Recommended PCB Layout





TERMINATION SEQUENCE

As shipped	Insert unstripped wire	Fully inserted wire	Tool-less terminated wire
(staged configurations)	(solid or stranded)	(wire retained and visible through “viewing” window)	(closed configuration)



Questions to ask at design in

What wire gauge and insulation type will you be using?
The connectors accept 18-24 AWG stranded and solid wire (separate part numbers per wire size and connector type) with varying maximum insulation outside diameters per wire gauge.

What should be the design criteria for choosing either the closed end or feed thru versions of the connectors?
Closed end connectors should be chosen when attaching power leads to a single printed circuit board. However, in applications that require bringing power to multiple printed circuit boards, feed thru connectors provide a more flexible solution.

Is your manufacturing process automated?
The connectors are manufactured in high temperature plastic material and tape and reel packaged for high speed SMT reflow or thru-hole wave solder processing.

What application tooling options are available?
The pre-assembled connector cover serves two purposes: One, it positions and retains the wire in the pre-stage position. Two, it serves as a wire stuffer for tool-less termination while providing strain relief to the terminated wire. Customers should provide simple “flat rock” tooling to fully seat the cover to complete the termination process.

What mechanical and electrical testing has the connectors been subjected to that validates their long term performance?
The TE Product Specification 108-2404 provides a summary of the test groups, sequences and results that the product was subjected in to during product qualification testing.

What applications dictate the use of either surface mount or thru hole connectors?
The SMT connectors will be used in the majority of the LED applications on aluminum clad printed circuit boards. However, for non-lighting applications that require bringing wire leads to FR4 printed circuit boards mounted with thru hole components, customers will find the thru-hole connectors more advantageous.

What special retention mechanisms are available to help ensure PCB stability?
The Thru-hole connectors have two off-set legs per terminal and the SMT connectors have solder tabs to help ensure printed circuit board stability.

FOR MORE INFORMATION : te.com/lighting

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*as defined www.te.com/leadfree

te.com

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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