

MANAGEMENT SYSTEM CERTIFICATE

Certificate No.
190905-2015-AQ-ITA-ACCREDIA

First Issue Date
2015-11-25

Certificate Issue Date
2018-11-25

Certificate Reissue Date
2018-09-13

Certification Expiry Date
2021-11-24

This certifies that the quality management system of

ELCO S.p.A.

Central function: Via Turanense Km 44.829, 67061 Carsoli, Italy
(Refers to Annex)

Conforms to the quality management system standard

ISO 9001:2015

and

EN 9100:2018

(TECHNICALLY EQUIVALENT TO AS9100D AND JIS Q 9100:2016)

Assessment has been performed in accordance with EN9104-001:2013 standard and ACCREDIA Technical Regulation RT-18 requirements

Certification Structure: MULTISITE

This certificate is valid for the following products or services:

(Further clarifications regarding the scope and the applicability of the requirements of the standard(s) may be obtained by consulting the certified organization)

Manufacture and sale of professional printed circuit board.

Sector IAF: 19 - 21

Place and date:

Vimercate (MB), 2018-09-14



SGQ N° 003 A	EMAS N° 009 P
SGA N° 003 D	PRD N° 003 B
SGE N° 007 M	PRS N° 094 C
SCR N° 004 F	SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

For the Accredited Unit:

DNV GL Business Assurance Italia S.r.l.

Zeno Beltrami

Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ACCREDITED UNIT: DNV GL Business Assurance Italia S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel. 039.68 99 905.
Website: www.dnvgl.com/assurance

Certificate No: 190905-2015-AQ-ITA-ACCREDIA
Place and date: Vimercate (MB), 2018-09-14

ANNEX TO CERTIFICATE

The companies and the services supplied by **ELCO S.p.A.** included in the Certification are the following:

Central function: ELCO S.p.A.

Via Turanense Km 44.829, 67061 Carsoli, Italy

Manufacture and sale of professional printed circuit board.

ELCO NETHERLANDS

Vossenbeemd 101, Helmond 5705CL, Netherlands

Manufacture and sale of professional printed circuit board.

ZPMV2.E82595
Wiring, Printed - Component

Enhanced searching capability for this category can be found in UL's iQ Family of Databases (iq.ul.com).

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Wiring, Printed - Component

[See General Information for Wiring, Printed - Component](#)

ELCO SPA

VIA TURANENSE KM 44.829
67061 CAROLI, AQ ITALY

E82595

Type	Cond Width		Cond	SS/ DSO	Max		Max		Meets UL796 UL796 UL796	C	
	Min	Edge			Area	Solder	Oper	Flame			
	mm(in)	mm(in)	Thk	DSO	Diam	Limits	Temp	Class	DSR	I	
Mass laminated (multilayered) printed wiring boards.											
e	0.10 (0.004)	0.10 (0.004)	16.5 (0.65)	DS	50.5 (2.0)	288	10	130	V-0	▲	*
Multilayer printed wiring boards.											
b1	0.13 (0.005)	0.38 (0.015)	16.5 (0.65) Int: 70	DS	25.4 (1.0)	260	3	130	V-0	All	3
b2	0.13 (0.005)	0.38 (0.015)	16.5 (0.65) Int: 70	DS	25.4 (1.0)	260	3	130	V-0	All	3
b3	0.13 (0.005)	0.38 (0.015)	16.5 (0.65) Int: 70	DS	25.4 (1.0)	260	3	130	V-1	All	3
c	0.10 (0.004)	0.10 (0.004)	16.5 (0.65) Int: 70	DS	76.2 (3.0)	288	10	130	V-0	All	*
c1	0.05 (0.002)	0.12 (0.005)	17 (0.67) Int: 34	DS	76.2 (3.0)	260	10	130	V-0	All	-
e1	0.08 (0.003)	0.12 (0.005)	17 (0.67) Int: 34	DS	25.4 (1.0)	280	20	130	V-0	All	-
G	0.05 (0.002)	0.152 (0.006)	9 (0.35) Int: 33	DS	101.6 (4.0)	269	20	120	V-0	All	3
L2	0.051 (0.002)	0.152 (0.006)	9 (0.35) Int: 33	DS	50.8 (2.0)	269	20	120	V-0	All	*
Multilayer printed wiring boards, flammability only Recognition.											
H	-	-	-	DS	-	288	10	-	V-0	-	-
Single layer printed wiring boards.											
a	0.15 (0.006)	0.46 (0.018)	16.5 (0.65)	DS	25.4 (1.0)	260	3	130	V-0	All	*
d	0.10 (0.004)	0.10 (0.004)	16.5 (0.65)	DS	76.2 (3.0)	288	10	130	V-0	All	*
d1	0.08 (0.003)	0.15 (0.006)	17 (0.67)	DS	76.2 (3.0)	260	10	130	V-0	All	-
F	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.5 (2.0)	288	10	130	V-0	All	*

F1	0.05 (0.002)	0.15 (0.006)	17 (0.67)	DS	76.2 (3.0)	260	10	130	V-0	All	-
Z	0.075 (0.003)	0.152 (0.006)	16.5 (0.65)	DS	50.8 (2.0)	269	20	120	V-0	All	*
Single layer printed wiring boards, flammability only Recognition.											
I	-	-	-	DS	-	288	10	-	V-0	-	-

* - CTI PLC may be marked on individual board.

DS - Double-Sided

Note - A triangle is marked on those products within a given type designation that comply with direct support of current-carrying parts performance level requirements of UL 796. "All" is used to indicate that all base materials under that type designation comply with direct support of current-carrying parts performance level requirement of UL796.



Marking: Company name or tradename "File Number" or trademark and type designation. May be followed by a suffix to denote factory identification.

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ZPMV8.E82595
Wiring, Printed Certified for Canada - Component

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Wiring, Printed Certified for Canada - Component

[See General Information for Wiring, Printed Certified for Canada - Component](#)

ELCO SPA

E82595

VIA TURANENSE KM 44.829
67061 CARSOLO, AQ ITALY

Type	Cond Width				Max		Max		Meets	C	
	Min	Edge	Cond	SS/ DSO	Area	Solder	Oper	Flame			UL796
	mm(in)	mm(in)	Thk mic(mil)	DSO	Diam mm(in)	Limits C sec	Temp C	Class	UL796 DSR	I	
Mass laminated (multilayered) printed wiring boards.											
e	0.10 (0.004)	0.10 (0.004)	16.5 (0.65)	DS	50.5 (2.0)	288 10	130	V-0	▲	*	
Multilayer printed wiring boards.											
b1	0.13 (0.005)	0.38 (0.015)	16.5 (0.65) Int: 70	DS	25.4 (1.0)	260 3	130	V-0	All	3	
b2	0.13 (0.005)	0.38 (0.015)	16.5 (0.65) Int: 70	DS	25.4 (1.0)	260 3	130	V-0	All	3	
b3	0.13 (0.005)	0.38 (0.015)	16.5 (0.65) Int: 70	DS	25.4 (1.0)	260 3	130	V-1	All	3	
c	0.10 (0.004)	0.10 (0.004)	16.5 (0.65) Int: 70	DS	76.2 (3.0)	288 10	130	V-0	All	*	
G	0.05 (0.002)	0.152 (0.006)	9 (0.35) Int: 33	DS	101.6 (4.0)	269 20	120	V-0	All	3	
L2	0.051 (0.002)	0.152 (0.006)	9 (0.35) Int: 33	DS	50.8 (2.0)	269 20	120	V-0	All	*	
Multilayer printed wiring boards, flammability only Recognition.											
H	-	-	-	DS	-	288 10	-	V-0	-	-	
Single layer printed wiring boards.											
a	0.15 (0.006)	0.46 (0.018)	16.5 (0.65)	DS	25.4 (1.0)	260 3	130	V-0	All	*	
d	0.10 (0.004)	0.10 (0.004)	16.5 (0.65)	DS	76.2 (3.0)	288 10	130	V-0	All	*	
F	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.5 (2.0)	288 10	130	V-0	All	*	
Z	0.075 (0.003)	0.152 (0.006)	16.5 (0.65)	DS	50.8 (2.0)	269 20	120	V-0	All	*	
Single layer printed wiring boards, flammability only Recognition.											
I	-	-	-	DS	-	288 10	-	V-0	-	-	

* - CTI PLC may be marked on individual board.

DS - Double-Sided

Note - A triangle is marked on those products within a given type designation that comply with direct support of current-carrying parts performance level requirements of UL 796. "All" is used to indicate that all base materials under that type designation comply with direct support of current-carrying parts performance level requirement of UL796.

Marking: Company name or tradename "File Number" or trademark  , type designation and Recognized Component

Mark for Canada,  . May be followed by a suffix to denote factory identification.

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ZPXK2.E254214
Wiring, Printed - Flexible Material Constructions - Component

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Wiring, Printed - Flexible Material Constructions - Component

[See General Information for Wiring, Printed - Flexible Material Constructions - Component](#)


ELCO SPA

E254214

VIA TURANENSE KM 44.829
 67061 CARSOLI, AQ ITALY

Type	Cond Width		Cond Thk	SS/ DS	Max		Max		Meets UL796 DSR	C T I
	Min	Edge			Area	Solder	Oper	Flame Class		
	mm(in)	mm(in)			Diam	Limits	Temp			
RF1	0.10 (0.004)	0.30 (0.012)	17 (0.67) Int: 34	DS	25.4 (1.0)	250	5	105	V-0	-

Multilayer Rigid Flex Composite, Flexible Materials Interconnect Constructions.

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