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Part Number: [0906633202](#)
Status: **Active**
Description: 2.54mm (.100") Pitch QF-50™ Right Angle, MIL Keying with Latch/Eject Levers, Shrouded Header, 20 Circuits

Documents:
[3D Model](#) [Product Specification PS-99020-0015 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

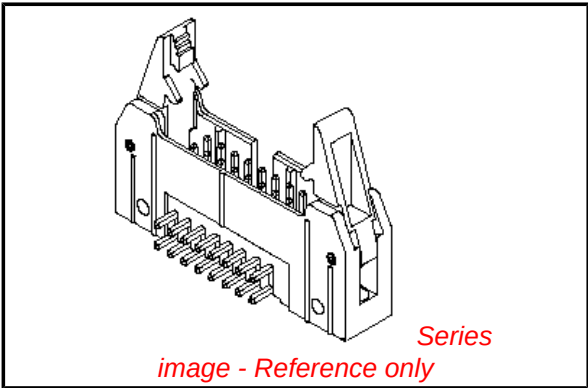
Product Family Ribbon Cable / Wire Trap Connectors
Series [90663](#)
Comments MIL/DIN Compliance
Component Type PCB Header
Glow-Wire Compliant No
Product Name QF-50™

Physical

Circuits (Loaded) 20
Color - Resin Black
Durability (mating cycles max) 300
Entry Angle 90° Angle
Flammability 94V-0
Lock to Mating Part None
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Polyester
Number of Rows 2
PCB Retention None
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.100 In
Pitch - Mating Interface (mm) 2.54 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 118
Plating min: Termination (µm) 3
Polarized to PCB No
Shrouded Fully
Stackable No
Surface Mount Compatible (SMC) No
Temperature Range - Operating -25°C to +85°C
Termination Interface: Style Through Hole
Wire Insulation Diameter N/A
Wire Size AWG N/A
Wire/Cable Type Ribbon Cable

Electrical

Current - Maximum per Contact 2.5A
Voltage - Maximum 250V AC/DC



EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**
Not Reviewed

China RoHS



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environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[90663Series](#)

Mates With
[90635](#)

Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

Product Specification

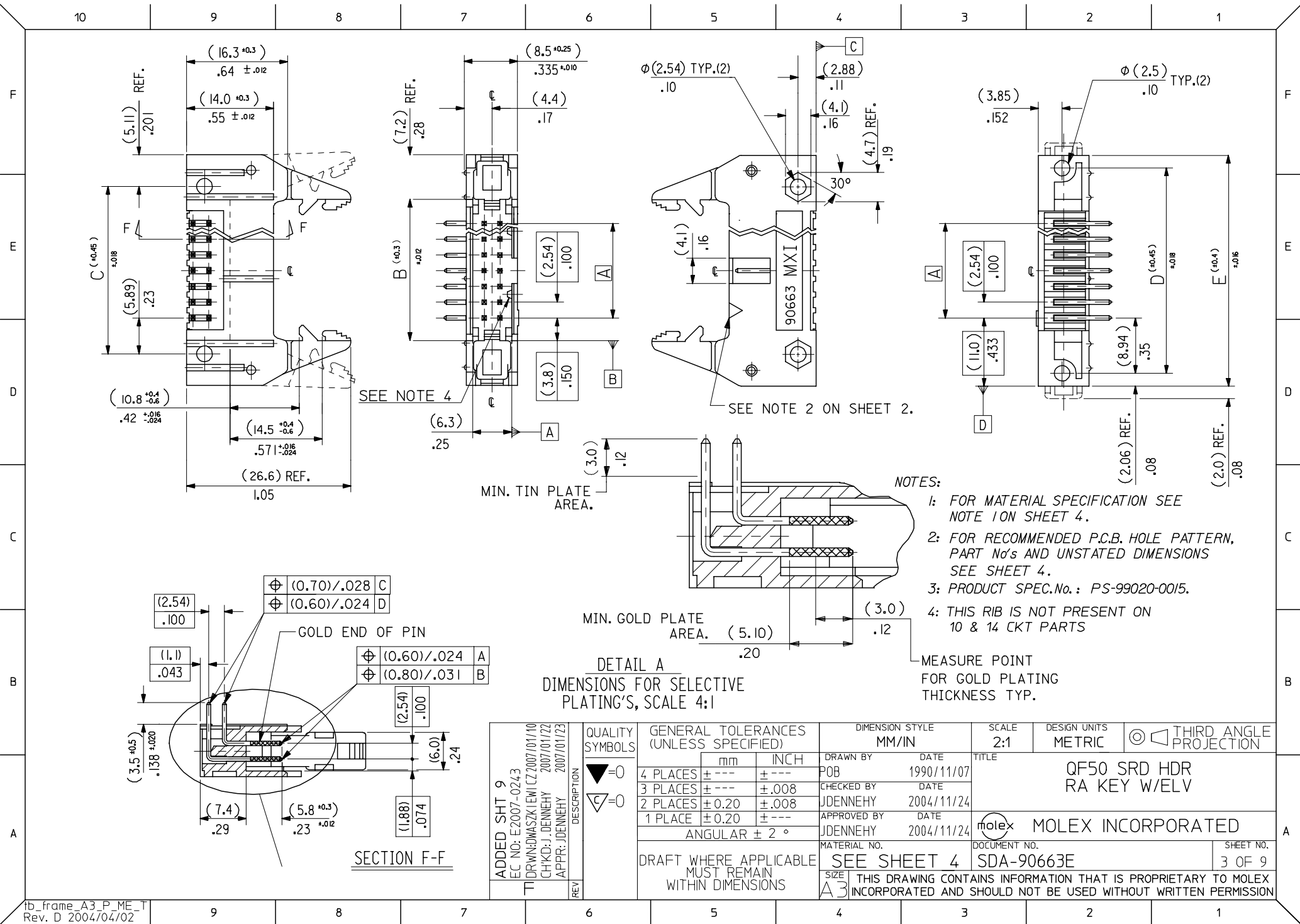
PS-99020-0015

Sales Drawing

SDA-90663E

This document was generated on 03/16/2010

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(78.74)/3.100	(86.34)/3.400	(90.52)/3.564	(96.62)/3.804	(100.74)/3.966	90663-3641	90663-3642	90663-3643		64
(73.66)/2.900	(81.26)/3.200	(85.44)/3.364	(91.54)/3.604	(95.66)/3.766	↑ -3601	↑ -3602	↑ -3603		60
(60.96)/2.400	(68.56)/2.700	(72.74)/2.864	(78.84)/3.104	(82.96)/3.266	-3501	-3502	-3503	90663-3509	50
(48.26)/1.900	(55.86)/2.200	(60.04)/2.364	(66.14)/2.604	(70.26)/2.766	-3401	-3402	-3403	↑ -3409	40
(40.64)/1.600	(48.24)/1.900	(52.42)/2.064	(58.52)/2.304	(62.64)/2.466	-3341	-3342	-3343	-3349	34
(35.56)/1.400	(43.16)/1.700	(47.34)/1.864	(53.44)/2.104	(57.56)/2.266	-3301	-3302	-3303	-3309	30
(30.48)/1.200	(38.08)/1.500	(42.26)/1.664	(48.36)/1.904	(52.48)/2.066	-3261	-3262	-3263	-3269	26
(22.86)/.900	(30.46)/1.200	(34.64)/1.364	(40.74)/1.604	(44.86)/1.766	-3201	-3202	-3203	-3209	20
(17.78)/.700	(25.38)/1.000	(29.56)/1.164	(35.66)/1.404	(39.78)/1.566	-3161	-3162	-3163	-3169	16
(15.24)/.600	(22.84)/.900	(27.02)/1.064	(33.12)/1.304	(37.24)/1.466	↓ -3141	↓ -3142	↓ -3143	↓ -3149	14
(10.16)/.400	(17.76)/.700	(21.94)/.864	(28.04)/1.104	(32.16)/1.266	90663-3101	90663-3102	90663-3103	90663-3109	10
A	B	C	D	E	ENG. NO. GSI PLATING	ENG. NO. GS2 PLATING	ENG. NO. GS3 PLATING	ENG. NO. PRE TIN	NO.OF CKTS.

NOTES

1.MATERIAL

HEADER : GLASS FILLED POLYESTER (UL 94V0), COLOUR - BLACK.

PINS : BRASS SIZE $\square$ (0.635)/.025 .

LEVER : GLASS FILLED POLYESTER (UL 94V0), COLOUR - BLACK.

SPRING PINS : STEEL

2.COLOUR IDENTIFICATION MARK FOR PLATING OPTIONS.

90663-3**1, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA

GSI PLATING (0.1um)/.004uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.

TIN. COLOUR MARK: YELLOW.

90663-3**2, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA

GS2 PLATING (0.76um)/.030uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.

TIN. COLOUR MARK: BROWN.

90663-3**3, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA

GS3 PLATING (0.25um)/.010uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.

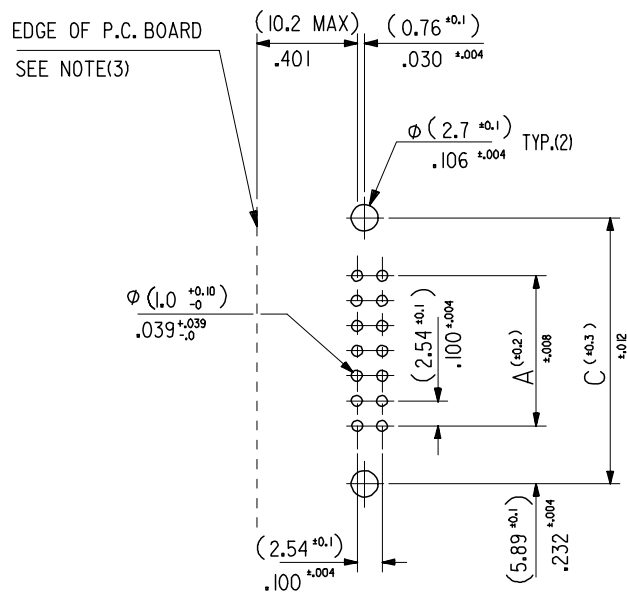
TIN. COLOUR MARK: BLUE.

90663-3**9, (0.5-1um)/.020-.040uin NICKEL UNDER (1.0-3.0um)/.039-.118uin TIN.

PRE-TIN COLOUR MARK: BLACK, (NO MARK).

3. 10.2mm MAX.TO EDGE OF PCB FOR DAISY CHAIN APPLICATIONS.

4. RECOMMENDED PCB THICKNESS 1.6mm



RECOMMENDED P.C.B.HOLE PATTERN.

ADDED NOTE 4 EC NO: E2008-0129 DRWN:DBYRNES 2007/09/13 CHKD: 2007/09/13 APPR:EOMAHONY 2007/09/14	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY POB	DATE 1990/11/07	TITLE QF50 SRD HDR RA KEY W/ELV				
			4 PLACES ± ---	± ---	CHECKED BY ROC	DATE 2000/10/04					
			3 PLACES ± ---	± .008	APPROVED BY MW	DATE 2000/10/04					
			2 PLACES ± 0.20	± .008	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			1 PLACE ± 0.20	± ---	SEE CHART		SDA-90663E		4 OF 9		
G REV	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								