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Part Number: [0906631603](#)
Status: **Active**
Description: 2.54mm (.100") Pitch QF-50™ Vertical, MIL Keying with Latch/Eject Levers, Shrouded Header, 60 Circuits

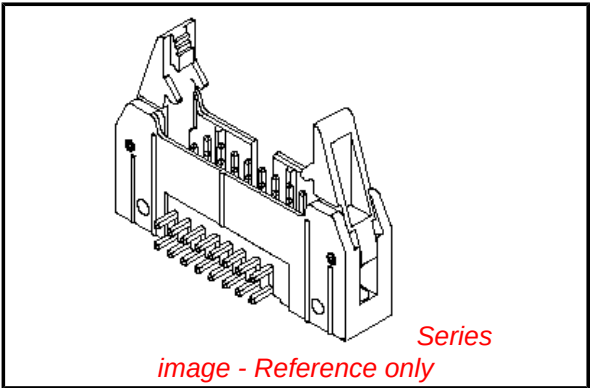
Documents:
[3D Model](#) [Product Specification PS-99020-0015 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

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

Physical
Circuits (Loaded) 60
Color - Resin Black
Durability (mating cycles max) 300
Entry Angle Vertical
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) 4
Plating min: Mating (µm) 0.1
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
CSA LR19980
Current - Maximum per Contact 2.5A
UL E29179
Voltage - Maximum 250V AC/DC

Material Info



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



Need more information on product 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](#)

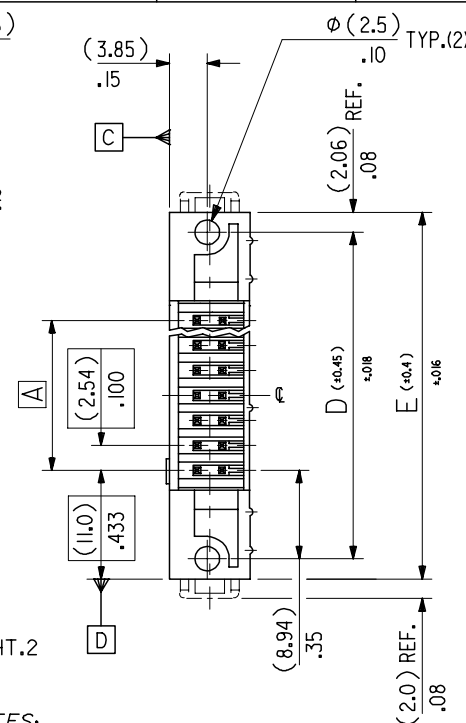
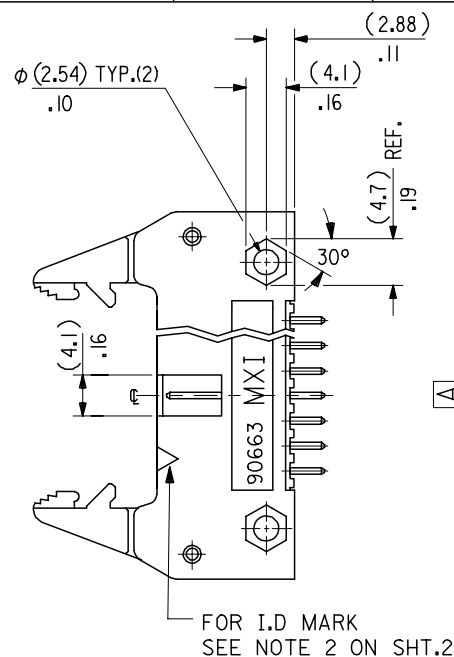
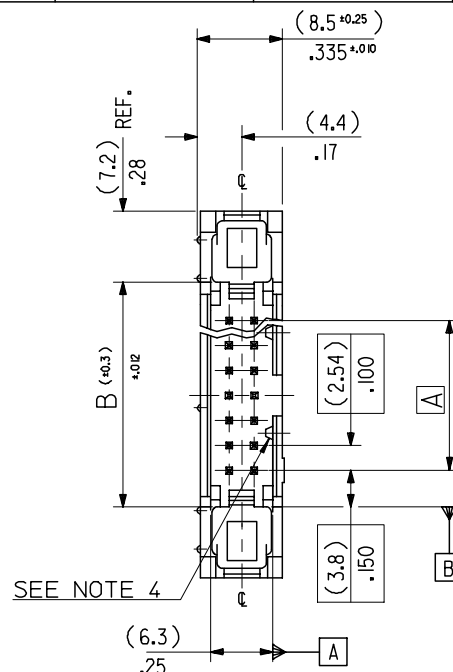
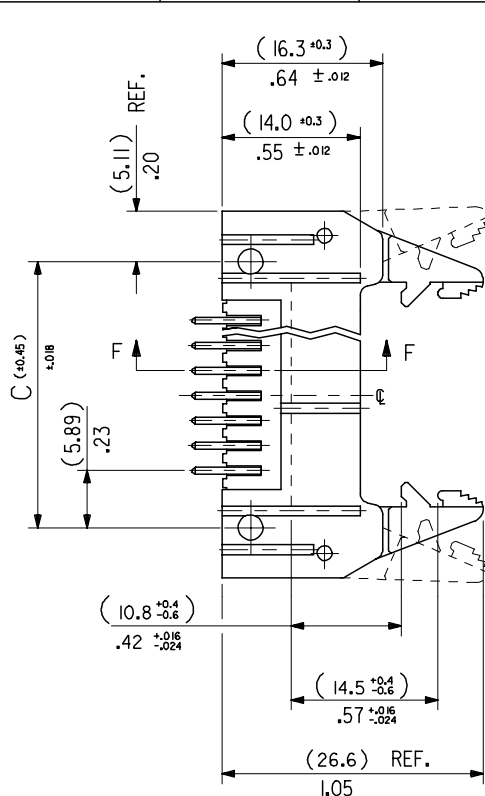
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-99020-0015
SDA-90663E

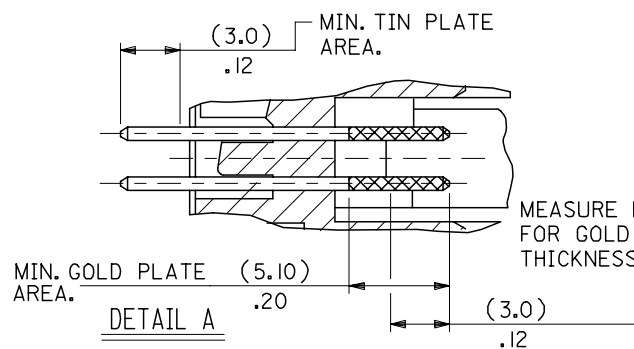
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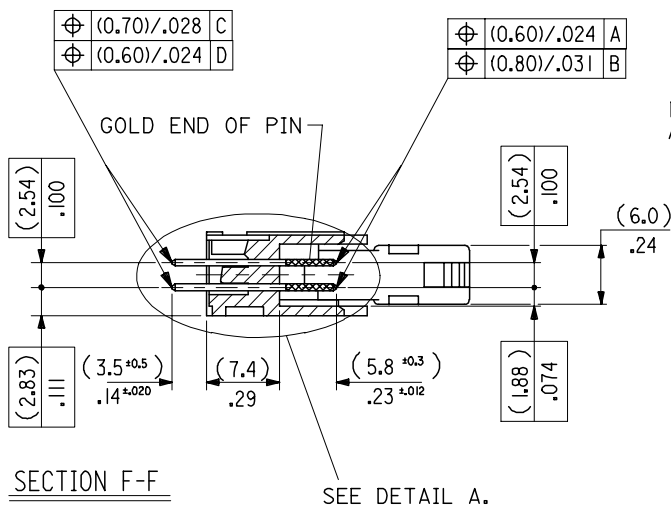


NOTES:

- FOR MATERIAL SPECIFICATION SEE NOTE 1. ON SHEET 2.
- FOR RECOMMENDED P.C.B. HOLE PATTERN, PART No's AND UNSTATED DIMENSIONS SEE SHEET 2.
- PRODUCT SPEC.No.: PS-99020-001/5.
- THIS RIB IS NOT PRESENT ON 10 & 14 CKT PARTS.



DIMENSIONS FOR SELECTIVE PLATING'S, SCALE 4:1



REV	DESCRIPTION
ADDED SHT 9	
EC NO: E2007-0243	
DRWN:DMASZ/LEW/CZ 2007/01/10	
CHKD:J.DENNEHY 2007/01/22	
APPR:J.DENNEHY 2007/01/23	

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± .008
2 PLACES ± 0.20	± .008
1 PLACE ± 0.20	± ---
ANGULAR ± 2 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM/IN	DATE
DRAWN BY	POB 1990/08/03
CHECKED BY	JDENNEHY 2004/11/24
APPROVED BY	JDENNEHY 2004/11/24
MATERIAL NO.	
DOCUMENT NO.	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
2:1	METRIC	
QF50 SRD HDR VT W/ELV		
MOLEX INCORPORATED		
DOCUMENT NO. SDA-90663E		SHEET NO. 1 OF 9

(78.74)/3.100	(86.34)/3.400	(90.52)/3.564	(96.62)/3.804	(100.74)/3.966	90663-1641	90663-1642	90663-1643		64
(73.66)/2.900	(81.26)/3.200	(85.44)/3.364	(91.54)/3.604	(95.66)/3.766	↑ -1601	↑ -1602	↑ -1603		60
(60.96)/2.400	(68.56)/2.700	(72.74)/2.864	(78.84)/3.104	(82.96)/3.266	↑ -1501	↑ -1502	↑ -1503	90663-1509	50
(48.26)/1.900	(55.86)/2.200	(60.04)/2.364	(66.14)/2.604	(70.26)/2.766	↑ -1401	↑ -1402	↑ -1403	↑ -1409	40
(40.64)/1.600	(48.24)/1.900	(52.42)/2.064	(58.52)/2.304	(62.64)/2.466	↑ -1341	↑ -1342	↑ -1343	↑ -1349	34
(35.56)/1.400	(43.16)/1.700	(47.34)/1.864	(53.44)/2.104	(57.56)/2.266	↑ -1301	↑ -1302	↑ -1303	↑ -1309	30
(30.48)/1.200	(38.08)/1.500	(42.26)/1.664	(48.36)/1.904	(52.48)/2.066	↑ -1261	↑ -1262	↑ -1263	↑ -1269	26
(22.86)/.900	(30.46)/1.200	(34.64)/1.364	(40.74)/1.604	(44.86)/1.766	↑ -1201	↑ -1202	↑ -1203	↑ -1209	20
(17.78)/.700	(25.38)/1.000	(29.56)/1.164	(35.66)/1.404	(39.78)/1.566	↑ -1161	↑ -1162	↑ -1163	↑ -1169	16
(15.24)/.600	(22.84)/.900	(27.02)/1.064	(33.12)/1.304	(37.24)/1.466	↑ -1141	↑ -1142	↑ -1143	↑ -1149	14
(10.16)/.400	(17.76)/.700	(21.94)/.864	(28.04)/1.104	(32.16)/1.266	90663-1101	90663-1102	90663-1103	90663-1109	10
A	B	C	D	E	ENG. NO. GS1 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.

2.COLOUR IDENTIFICATION MARK FOR PLATING OPTIONS.

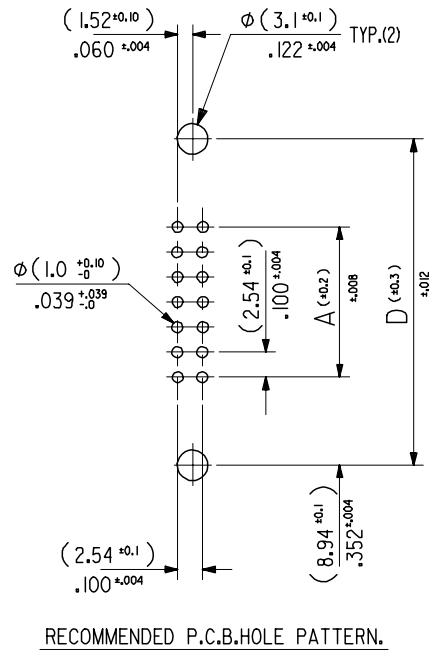
90663-1**1, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS1 PLATING (0.1um)/.004uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.
TIN. COLOUR MARK: YELLOW.

90663-1**2, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS2 PLATING (0.76um)/.030uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.
TIN. COLOUR MARK: BROWN.

90663-1**3, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS3 PLATING (0.25um)/.010uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.
TIN. COLOUR MARK: BLUE.

90663-1**9, (0.5-1um)/.020-.040uin NICKEL UNDER (1.0-3.0um)/.039-.118uin TIN.
PRE-TIN COLOUR MARK: BLACK, (NO MARK).

3. RECOMMENDED PCB THICKNESS 1.6mm



RECOMMENDED P.C.B.HOLE PATTERN.

ADDED NOTE 3 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 1990/08/03	QF50 SRD HDR VT W/ELV						
			4 PLACES	± ---	± ---	CHECKED BY JDENNEHY	DATE 2004/11/24							
			3 PLACES	± ---	± .008	APPROVED BY JDENNEHY		DATE 2004/11/24		MOLEX MOLEX INCORPORATED				
			2 PLACES	± 0.20	± .008									
			1 PLACE	± 0.20	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 2 °		SEE CHART		SDA-90663E		2 OF 9						
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												