

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0906631149](#)
Status: **Active**
Description: 2.54mm (.100") Pitch QF-50™ Vertical, MIL Keying with Latch/Eject Levers, Shrouded Header, 14 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 Eject Levers
Component Type PCB Header
Glow-Wire Compliant No
Product Name QF-50™

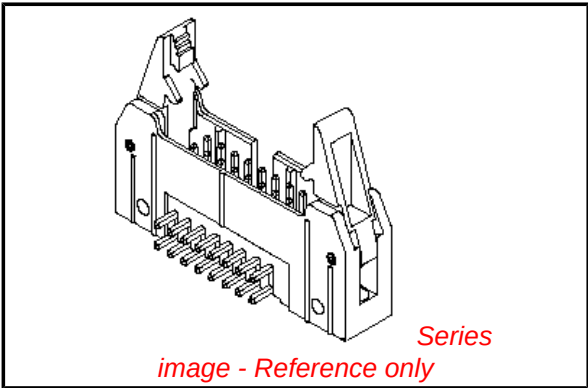
Physical

Circuits (Loaded) 14
Color - Resin Black
Durability (mating cycles max) 300
Entry Angle Vertical
Flammability 94V-0
Lock to Mating Part None
Material - Metal Brass
Material - Resin Polyester
Number of Rows 2
PCB Locator No
PCB Retention None
PCB Thickness Recommended (in) 0.063 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
Pitch - Term. Interface (in) 0.100 In
Pitch - Term. Interface (mm) 2.54 mm
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 1A
Voltage - Maximum 250V AC/DC

Solder Process Data



EU RoHS

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

China RoHS



**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

Lead-free Process Capability

Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

Product Specification

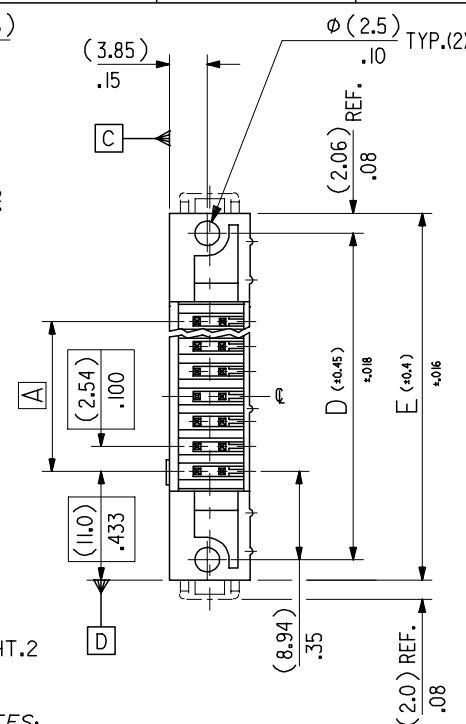
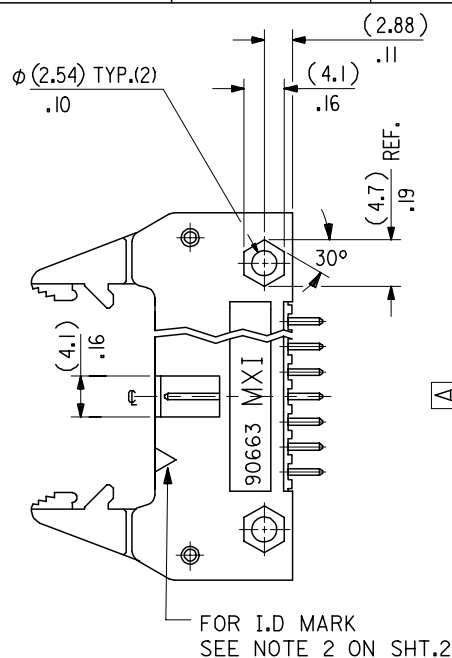
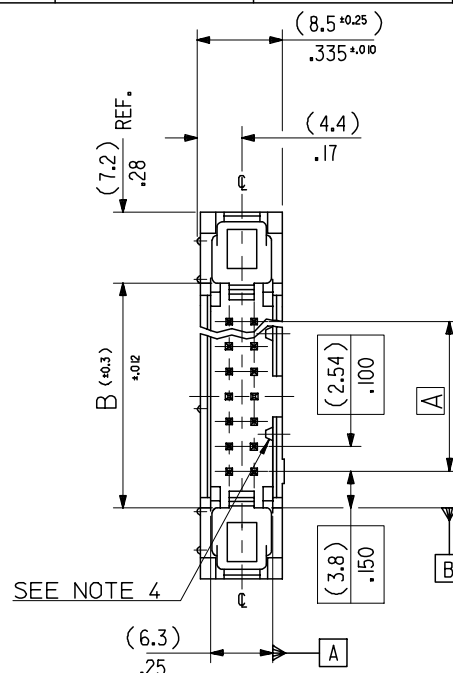
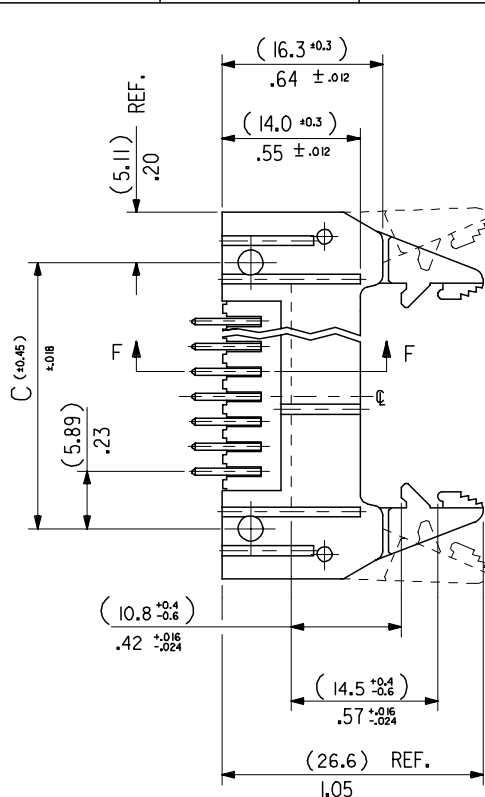
PS-99020-0015

Sales Drawing

SDA-90663E

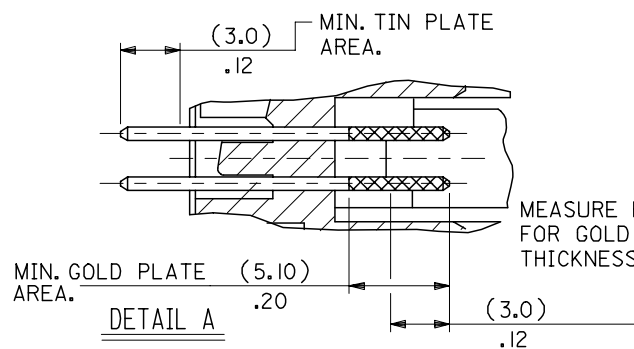
This document was generated on 03/16/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

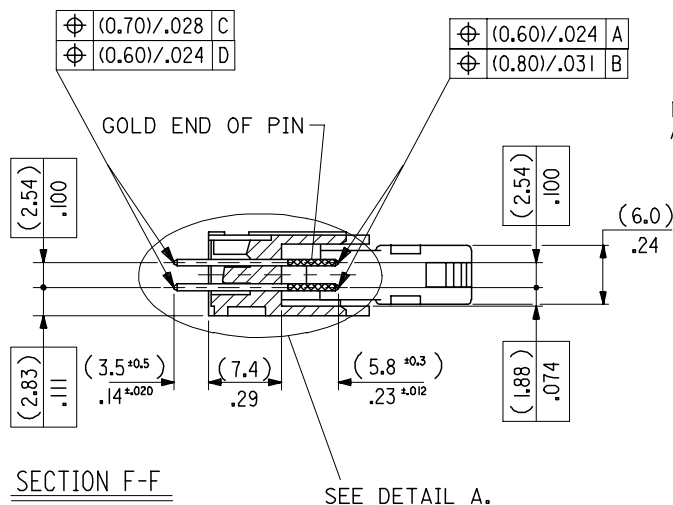


NOTES:

- 1: FOR MATERIAL SPECIFICATION SEE NOTE 1. ON SHEET 2.
- 2: FOR RECOMMENDED P.C.B. HOLE PATTERN, PART No's AND UNSTATED DIMENSIONS SEE SHEET 2.
- 3: PRODUCT SPEC.No.: PS-99020-0015.
- 4: THIS RIB IS NOT PRESENT ON 10 & 14 CKT PARTS.



DIMENSIONS FOR SELECTIVE PLATING'S, SCALE 4:1



ADDED SHT 9 EC NO: E2007-0243 DRAWN: DNASZKI, LEVI CZ 2007/01/10 CHKD: J. DENNEHY 2007/01/22 APPR: J. DENNEHY 2007/01/22		DESCRIPTION ▽=0 ▽=0	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY DATE		TITLE				
			4 PLACES	± ---	± ---	POB 1990/08/03		QF50 SRD HDR VT W/ELV				
			3 PLACES	± ---	± .008	CHECKED BY DATE						
			2 PLACES	± 0.20	± .008	J. DENNEHY 2004/11/24						
			1 PLACE	± 0.20	± ---	APPROVED BY DATE						
			ANGULAR ± 2 °			J. DENNEHY 2004/11/24		molex MOLEX INCORPORATED				
						MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE SHEET 2		SDA-90663E		1 OF 9		
						SIZE A 3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

(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.

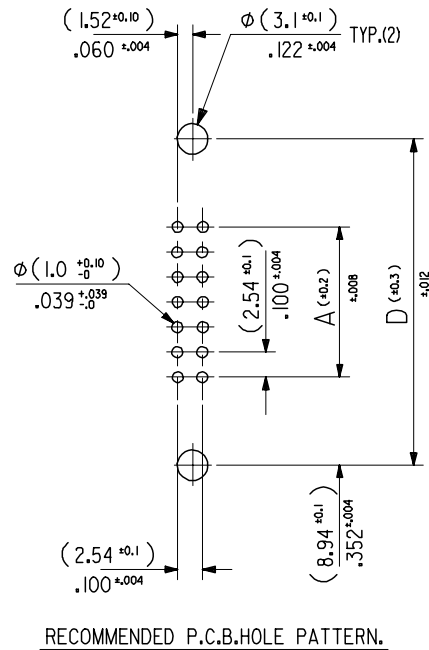
90663-1**1, (1um)/.039uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS1 PLATING (0.1um)/.004uin MIN. GOLD. SOLDER AREA (3um)/.118uin MIN.
TIN. COLOUR MARK: YELLOW.

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



ADDED NOTE 3	DESCRIPTION
EC NO: E2008-0129	2007/09/13
DRWN:DBYRNES	2007/09/13
CHKD:	2007/09/13
APPR:EOMAHONY	2007/09/14
REV	

QUALITY SYMBOLS
$\nabla = 0$
$\nabla = 0$

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	MM/IN
4 PLACES	$\pm$ ---
3 PLACES	$\pm$ ---
2 PLACES	$\pm$ 0.20
1 PLACE	$\pm$ 0.20
ANGULAR $\pm$ 2 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM/IN	
DRAWN BY	DATE
POB	1990/08/03
CHECKED BY	DATE
JDENNEHY	2004/11/24
APPROVED BY	DATE
JDENNEHY	2004/11/24
MATERIAL NO.	
SIZE	
A3	

SCALE 2:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
TITLE			
QF50 SRD HDR VT W/ELV			
MOLEX INCORPORATED			
DOCUMENT NO. SDA-90663E			SHEET NO. 2 OF 9
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			