THIS DRAWING IS UNPUBLISHED RELEASED FOR PUBLICATION 2012
© COPYRIGHT 2012 Tyco Electronics AMP GmbH ALL RIGHTS RESERVED.

GENERAL NOTES
allgemeine Bemerkungen

HEADER DESIGN BASED ON PLATFORM DESIGN OF "NANO-MQS MARKET SERIES"
ACC. TE SPECIFICATION C-114-94160

Stiftwannendesign basiert auf Plattformdesign der "Nano-MQS Market Serie"
gem. TE Spezifikation C-114-94160

DATUMS I1, I2, I3 = INTERFACE --> HERE: A, B, C
DATUMS H1, H2, H3 = HEADER

NOTES
Bemerkungen

1 INTERFACE ACC. TE SPECIFICATION 114-94000-11
Schnittstelle gem. TE Spezifikation 114-94000-11

2 CONTACT AREAS ACC. TE SPECIFICATION 114-94201
Kontaktbereiche gem. TE Spezifikation 114-94201

3 PLASTIC MATERIAL WITH 20% REGRIND PORTION
Polymer-Werkstoff mit 20% Mahlgut-/ Recyclatanteil

4 DIFFERING TO 1
abweichend zu 1

5 CONTACT PUSH-OUT FORCES >=15N IN A RANGE UP TO 0.2MM WITH 50 MM/MIN
AT A PRELOAD OF 5N; MEASURED AT 3 ASSEMBLIES EACH CAVITY
Kontakt-Ausdruckkraefte >=15N in einem Bereich bis 0.2mm gepruefft mit 50mm/min
bei einer Vorkraft von 5N; gemessen an 3 Assemblagen je Nest

6 SOLDERABILITY ACC. DIN EN 60068-2-20 AGEING 3B
Loetbarkeit gem. DIN EN 60068-2 20 Alterung 3b

7 100% ELECTRICAL INSPECTION END OF LINE (CC)
100% Elektrische Endkontrolle (CC)

8 CLEANLINESS ACC. TO TE SPECIFICATION 115-18390 (INCL. VDA Band 19)
Sauberkeit gem. TE Spezifikation 115-18390 (inkl. VDA Band 19)

9 PACKAGING: BLISTER-BELT ON REEL
Verpackung: Blistergurt auf Rolle

10 MAX. AREA FOR SUCKING-IN TO PICK & PLACE: 0.1MM FLATNESS
max. Bereich zum Ansaugen fuer Pick & Place: 0.1mm Ebenheit

11 FONT AREAS AND CHARACTERS MAX. 0.2MM SUNK AND RAISED
Schriftbereiche und Zeichen max. 0.2mm vertieft und erhaben

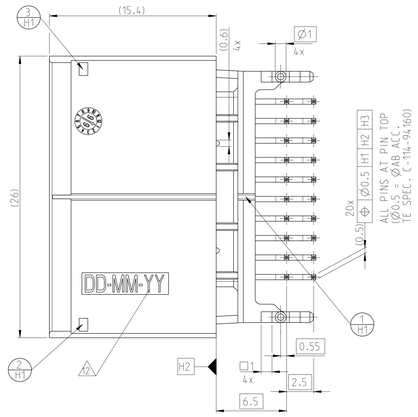
12 AREA FOR MARKING "INSPECTED GOOD PARTS"
PER INKJET PRINTING OR LASER MARKING
C2 Bereich fuer Markierung "gepruefte Gutteile"
mittels Tintenstrahlbedruckung oder Laserbeschriftung

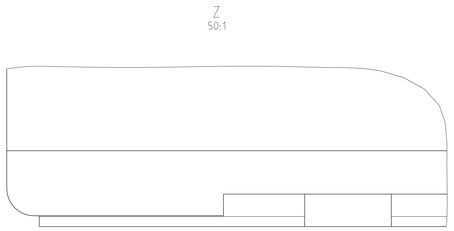
AS SHOWN
0-2208165-1

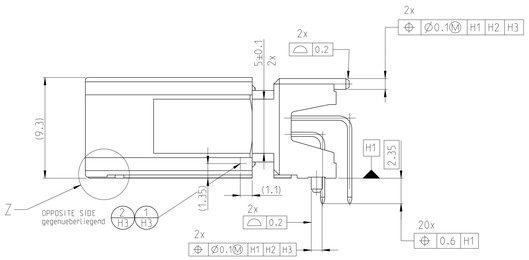
LOC	DIST
A1	-

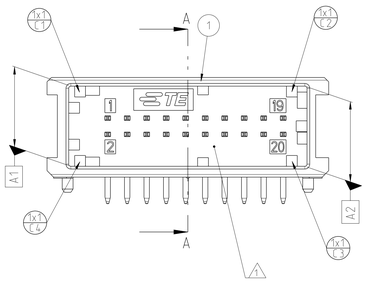
REVISIONS

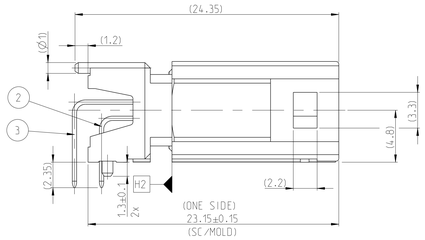
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	Wall thickness housing changed to min. 1mm	13FEB2014	DR	WD
	C	Detail Z added. Wall thickness partly enlarged	18MAY2015	HJA	MS
	C1	VARIANT 1-2208165-2 ADDED	30NOV2015	MB	BF
	C2	NOTES REVISED	05JUL2018	HO.	SCHO

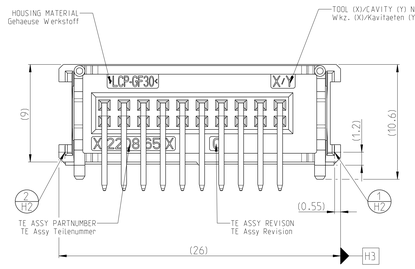


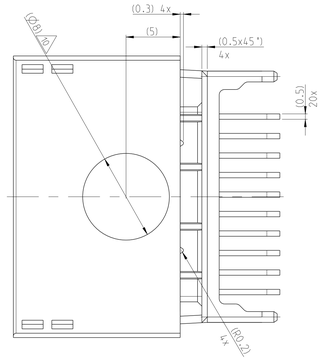




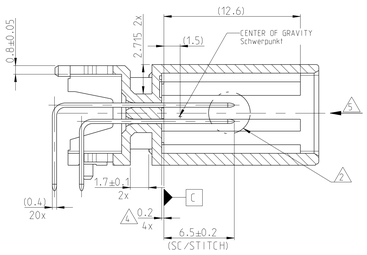


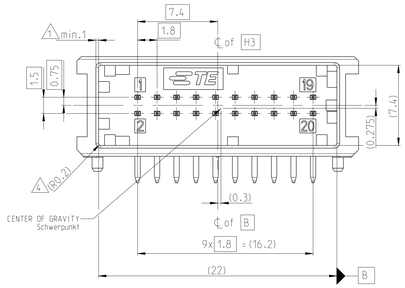




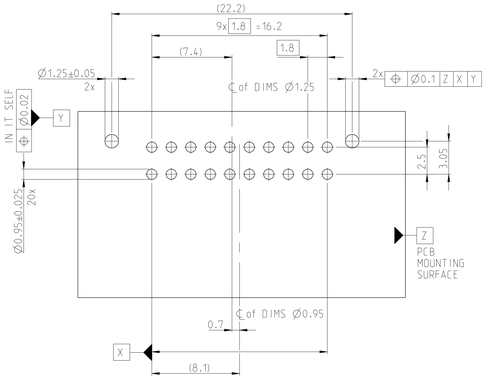


A-A

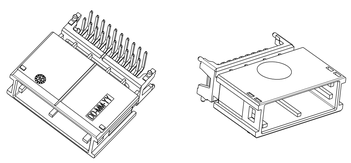




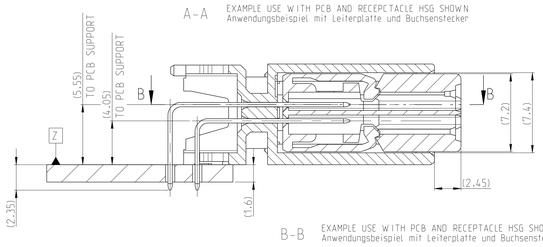
RECOMMENDED PCB LAYOUT
empfohlenes Leiterplattenanschlussbild



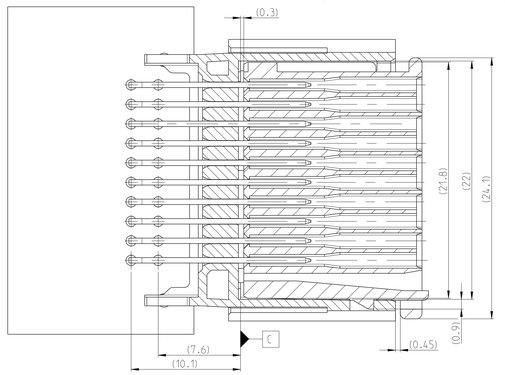
M2:1



A-A EXAMPLE USE WITH PCB AND RECEPCTACLE HSG SHOWN
Anwendungsbeispiel mit Leiterplatte und Buchsenstecker



B-B EXAMPLE USE WITH PCB AND RECEPTACLE HSG SHOWN
Anwendungsbeispiel mit Leiterplatte und Buchsenstecker



10	10	10	10	6 SOLDER SIDE 3-8µm Sn	COPPER-ALLOY WITH 1-3µm Sn OVER 1-2.2µm Ni	NANO-MQS CONTACT PIN WITH SWAGE, SOLDER VERSION	3
10	10	10	10	6 SOLDER SIDE 3-8µm Sn	COPPER-ALLOY WITH 1-3µm Sn OVER 1-2.2µm Ni	NANO-MQS CONTACT PIN WITH SWAGE, SOLDER VERSION	2
1				BLACK ACC. RAL 9011 schwarz nach RAL 9011	1 LCP-GF30	20 POS NANO MQS HEADER HOUSING CODE Z	1
	1			NATURAL SIM. RAL1015 natur aehnl. RAL1015	1 LCP-GF30	20 POS NANO MQS HEADER HOUSING CODE B	1
		1		BLACK ACC. RAL 9011 schwarz nach RAL 9011	1 LCP-GF30	20 POS NANO MQS HEADER HOUSING CODE B	1
			1	BLACK ACC. RAL 9011 schwarz nach RAL 9011	1 LCP-GF30	20 POS NANO MQS HEADER HOUSING CODE A	1
0--9	1--2	0--2	0--1	FINISH	MATERIAL Werkstoff	Benennung DESCRIPTION	ITEM NO
C	A	C	C	<------REVISION OF EACH ASSY (WHEN BLANK USE D W G REVISION)			
QTY PER ASSY							

TOLERANCES UNLESS OTHERWISE SPECIFIED ACC. TO DIN 16901-ND CENTRIC TO NOMINAL DIMENSION, EDITION 1982-11 SHALL APPLY.
TOLERANZEN GEMAESS DIN 16901-ND. Es gilt die Ausgabe 1982-11.

PRODUCT CHARACTERISTICS ACC. QMP EMEA_12 BESONDERE MERKMALE NACH QMP EMEA_12
TOLERANCING ISO 8015
TOLERIERUNG ISO 8015

DIESE ZEICHNUNG IST EIN KONTROLLIERTES DOKUMENT.
BEMASSUNGEN UND TOLERANZEN GEMAESS (GPS (ISO STANDARDS).
THIS DRAWING IS A CONTROLLED DOCUMENT.

CHK'D	D. Rosan	04MAY2012
CHK	W. Dietrich	20JUN2012
APVD	M.Spielvogel	20JUN2012
PRODUCT SPEC	108-94347	
APPLICATION SPEC		

DIMENSIONS: mm
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.1, 1 PLC ±0.05, 2 PLC ±0.02, 3 PLC ±0.01, ANGLES ±1°, A ±0.5°, B ±0.25°, C ±0.1°
MATERIAL SEE TABLE
FINISH -
WEIGHT ca.2.7g

TE Connectivity

NAME 20pos. 90DEG. PINHEADER ASSY 20pol. 90Grad. Stiftwanne Assy NANO MQS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A0	00779	C-2208165	-

CUSTOMER DRAWING | SCALE 5:1 | SHEET 1 OF 1 | REV C2

A606 13/111