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Understanding Embedded - FPGAs (Field Programmable Gate Array)

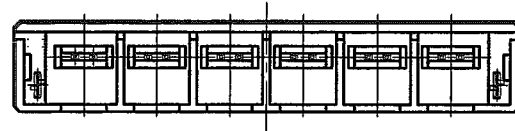
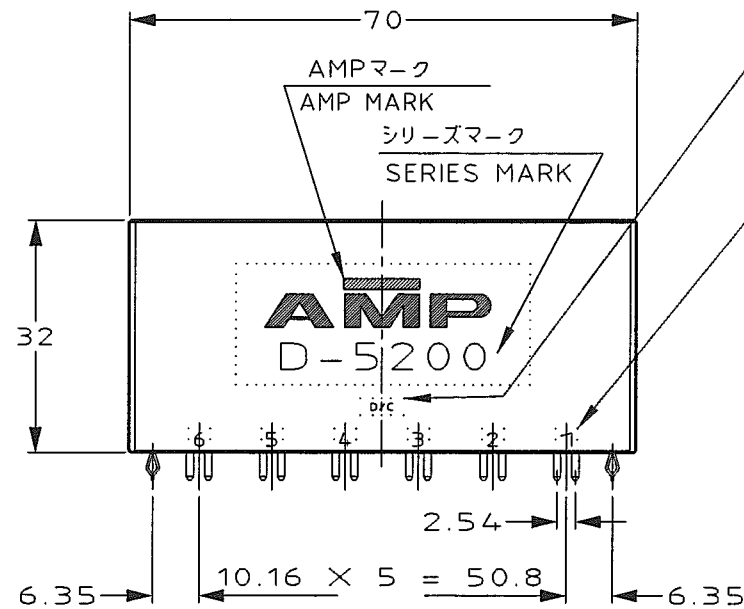
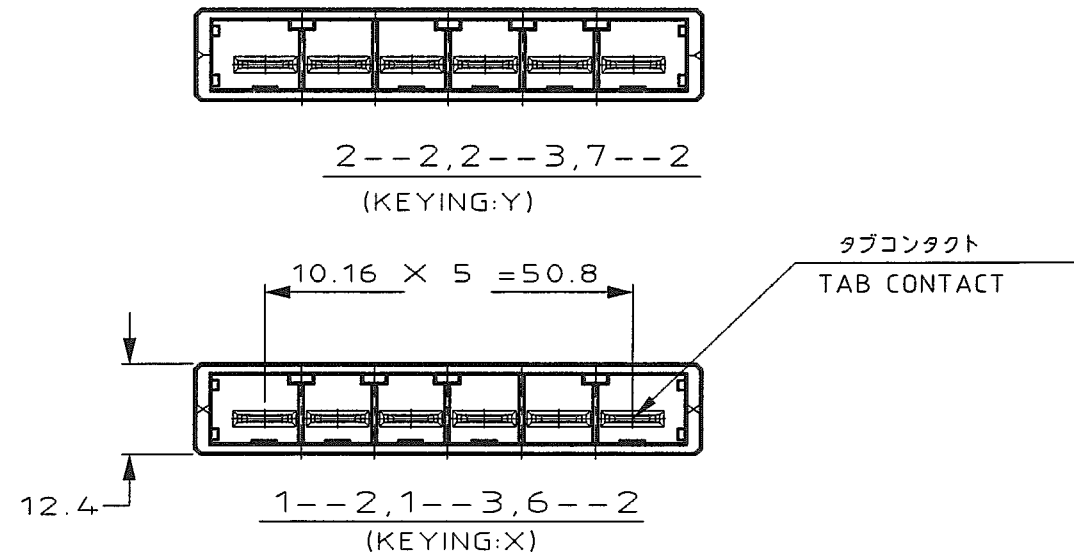
Embedded - FPGAs, or Field Programmable Gate Arrays, are advanced integrated circuits that offer unparalleled flexibility and performance for digital systems. Unlike traditional fixed-function logic devices, FPGAs can be programmed and reprogrammed to execute a wide array of logical operations, enabling customized functionality tailored to specific applications. This reprogrammability allows developers to iterate designs quickly and implement complex functions without the need for custom hardware.

Applications of Embedded - FPGAs

The versatility of Embedded - FPGAs makes them indispensable in numerous fields. In telecommunications.

Details

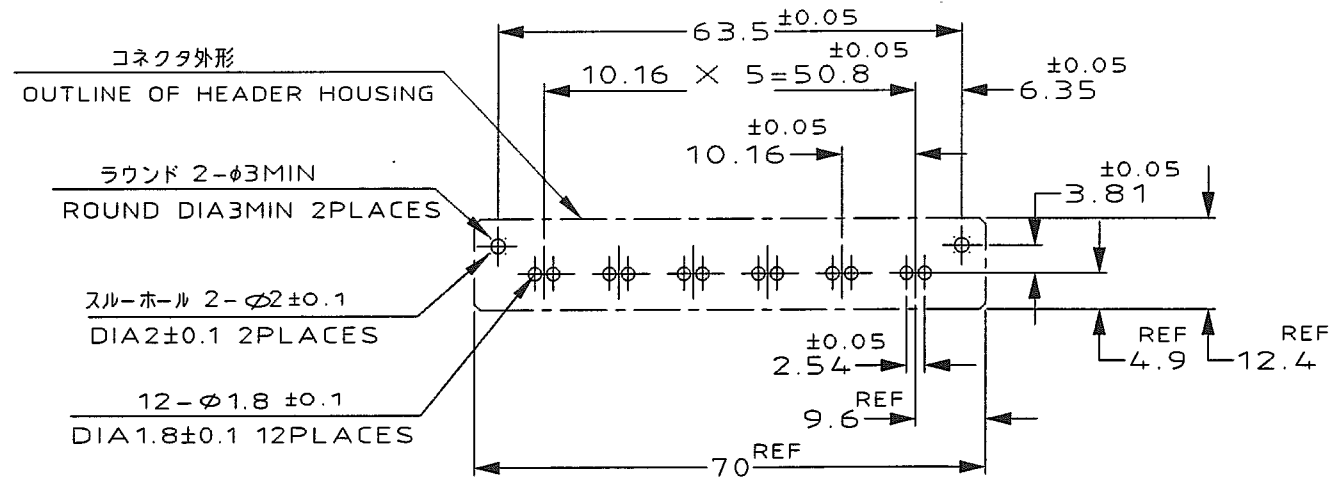
Product Status	Active
Number of LABs/CLBs	6480
Number of Logic Elements/Cells	82944
Total RAM Bits	3538944
Number of I/O	440
Number of Gates	-
Voltage - Supply	0.95V ~ 1.05V
Mounting Type	Surface Mount
Operating Temperature	0°C ~ 85°C (TJ)
Package / Case	676-BBGA, FCBGA
Supplier Device Package	676-FCBGA (27x27)
Purchase URL	https://www.e-xfl.com/product-detail/xilinx/xc5vlx85-1ffg676c



回路番号
CIRCUIT NO

リテンションレグ
RETENTION LEG

コンタクト半田付部
CONTACT TAIL



推奨基板取付け穴寸法
PC 基板厚: 1.6 ~ 2.4 ±0.1
(非累積公差)
(コネクタ搭載面)
PC 基板厚: 3.2 ±0.1
6,7-179960-2 ONLY

RECOMENDED PC BOARD HOLE PATTERN
PC BOARD THICKNESS: 1.6 ~ 2.4 ±0.1
(NOT ACCUMULATE TOLERANCE)
(CONNECTOR MOUNT SIDE)
PC BOARD THICKNESS: 3.2 ±0.1
6,7-179960-2 ONLY

注記

- 材料: ハウジング: ガラス入り熱可塑性
ポリエステル樹脂 (94V-0), 色: 黒
タブ コンタクト: 銅合金
リテンション レグ: 黄銅
- めっき: コンタクト: 全面Ni下地
接触部: 0.38 μm MIN金めっき
- めっき: コンタクト: 全面Ni下地
接触部: 0.76 μm MIN金めっき
- めっき: リテンションレグとコンタクト半田付部
: ニッケル下地の上にスズめっき

NOTES

- MATERIAL: HOUSING: GLASS FILED THERMO PLASTIC
POLYESTER(94V-0), COLOR: BLACK
TAB CONTACT: COPPER ALLOY
RETENTION LEG: BRASS
- FINISH (CONTACT AREA): 0.38 μm MIN GOLD PLATING
OVER Ni PLATING
- FINISH (CONTACT AREA): 0.76 μm MIN GOLD PLATING
OVER Ni PLATING
- FINISH (RETENTION LEG): TIN PLATED
(CONTACT TAIL) OVER NICKEL

Y	4	3	2-179960-3
	4	2	7-179960-2
	4	2	2-179960-2
X	4	3	1-179960-3
	4	2	6-179960-2
	4	2	1-179960-2
KEY TYPE	コンタクトのめっき (FINISH)		製品番号 (PART NO.)

E2	REVISED PER ECO-11-005030	RK	HMR	23MAR11
LTR	REVISION RECORD	DR	CHK	DATE

DR.	14/APR/'95	DE.	14/APR/'95
Y. Ishikawa		Y. Ishikawa	
CHK.	17/APR/'95	APP.	17/APR/'95
S. Manabe		S. Manabe	

一般公差 (GENERAL TOLERANCE)		
10mm以下	±0.3	
10mm以上 30mm以下	±0.35	
30mm以上 100mm以下	±0.4	
100mm以上	±0.5	

SIZE	LOC	NUMBER
A3	J	C=179960
SCALE	1-1	REV. E2

SHEET		1 of 1
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TE Connectivity

NAME 6極 1列 垂直タイプ ヘッダー アッシー
6 POS SINGLE ROW VERTICAL HDR ASS'Y
<DYNAMIC D-5200>

WIRE RANGE 14-20 AWG
INSULATION DIA 0.1mm
MATERIAL SEE NOTE
FINISH SEE NOTE