30 302299

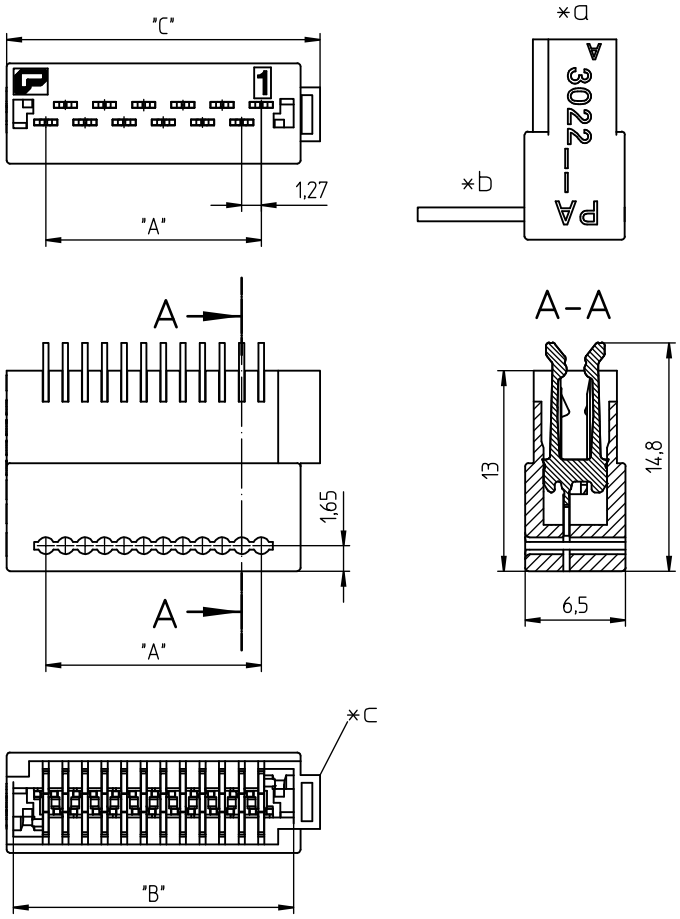
Micromodul™ connectors, pitch 1.27 mm

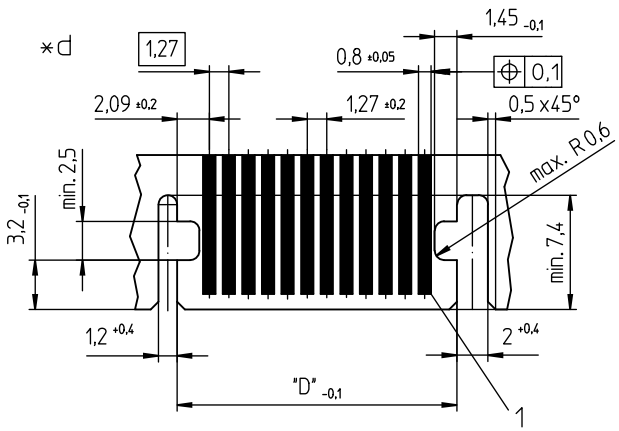
Micromodul™ connector for direct mating, insulation displacement technology (IDT), with locking on printed circuit board by means of locking hooks and toes, with closed sides

State: Active

Approvals:

30 302299





Environmental conditions

Temperature range	-40 °C/+130 °C[1]

[1] upper limit temperature (insulating body) RTI (electrical) of the UL Yellow Card

Materials

Insulating body	PA GF, V-0 according to UL94[1]
Contact spring	CuSn, pre-nickel and tin-plated – 302299 CuSn, pre-nickel-plated, gold-plated in cotact area, tin-plated in insulation displacement area – 302299 V122

[1] component glow wire resistant (GWT 750 °C), testing acc. to IEC 60695-2-11, assessment acc. to IEC 60335-1 (flame < 2 s)

Mechanical data

Mating with	Leiterplatte 1,6 ± 0,14 mm
Insertion force/contact	< 1,3 N
Withdrawal force/contact	> 0,3 N

Connectable conductors for IDT area

Construction	flat cable 1.27 mm
Section max.	AWG 26 (0,140 mm²)
Insulation diameter	1,0 mm
Approved cables	at www.lumberg.com

Electrical data (at T_{amb} 20 °C)

Contact resistance	≤ 5 mΩ
Rated current	1,2 A bei T_U 85 °C
Rated voltage	125 V AC
Material group	I (IEC)/0 (UL) (CTI ≥ 600)
Creepage distance	0,79 mm
Clearance	0,79 mm
Insulation resistance	≥ 1 GΩ

Associated products

Harnessing equipment

- HA3...e
- HA3022e-R
- HZ-M3022
- KHP3022
- PP3022
- VARICON 1000

30 302299

*a terminated connector
*b cable departure 90°, bus capable
*c protection against mismating/positioning
*d example for printed circuit board layout

30 302299

Designation	Pole Number	PU (Pieces)	MDQ (Pieces)	Dimensions			
				A (mm)	B (mm)	C (mm)	D (mm)
302299 04	4	1300	1300	3.81	8.01	10.16	7.99
302299 06	6	1300	1300	6.35	10.55	12.70	10.53
302299 08	8	1300	1300	8.89	13.09	15.24	13.07
302299 10	10	1300	1300	11.43	15.63	17.78	15.61
302299 12	12	1300	1300	13.97	18.17	20.32	18.15
302299 14	14	1300	1300	16.51	20.71	22.86	20.69
302299 16	16	1300	1300	19.05	23.25	25.40	23.23
302299 18	18	1300	1300	21.59	25.79	27.94	25.77
302299 20	20	1300	1300	24.13	28.33	30.48	28.31
302299 22	22	1300	1300	26.67	30.87	33.02	30.85
302299 04 V122	4	1300	1300	3.81	8.01	10.16	7.99
302299 06 V122	6	1300	1300	6.35	10.55	12.70	10.53
302299 08 V122	8	1300	1300	8.89	13.09	15.24	13.07
302299 10 V122	10	1300	1300	11.43	15.63	17.78	15.61
302299 12 V122	12	1300	1300	13.97	18.17	20.32	18.15
302299 14 V122	14	1300	1300	16.51	20.71	22.86	20.69
302299 16 V122	16	1300	1300	19.05	23.25	25.40	23.23
302299 18 V122	18	1300	1300	21.59	25.79	27.94	25.77
302299 20 V122	20	1300	1300	24.13	28.33	30.48	28.31
302299 22 V122	22	1300	1300	26.67	30.87	33.02	30.85

Packaging:
on reel