REFERENCE SPECIFICATIONS ENVIRONMENTAL CHARACTERISTICS - DIN 41652 - MIL-DTL-24308 - CLIMATIC CATEGORY: 55/125/56 TEMPERATURE RANGE -55°C TO +125°C PHYSICAL CHARACTERISTICS DAMP HEAT STEADY STATE 56 DAYS - INSULATOR MATERIAL: - PBT COLOR BLACK-RAL 7001/STANDARD MATERIAL RIGHT ANGLED STRAIGHT - CONTACT MATERIAL: - PHOSPHOR BRONZE FOR STRAIGHT CONTACT AND RA SOCKET - BRASS FOR RA PIN - GROUNDING DEVICE MATERIAL : - BRASS FOR RIGHT ANGLE CONTACT ELECTRICAL CHARACTERISTICS - MAXIMUM RATING CURRENT: 5A AT 70°C NOMINAL CURRENT: 5A (STANDARD CONDITIONS) - CONTACT RESISTANCE : straight terminations: <10mW Right angled termination: $\langle 25m\Omega \rangle$: <35m Ω for 50 way - VOLTAGE PROOF : >1000 V.r.m.s. - RATED VOLTAGE : 300 V.r.m.s. - insulation resistance: >5000m Ω - creepage and clearance distance: > Imm - average wiping length: 2mm MECHANICAL CHARACTERISTICS - RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum - Female screw lock: 0.5 N.m minimum - INSERTION AND WITH DRAWAL FORCE: <n x 3.40 N (n number of cts) - GAUGE RETENTION FORCE: >0.20 N (gauge PM)
- THICKNESS GAUGE = \$0.99\pmu.005 / SURFACE ROUGHNESS:
- Ra=0.10\mu mini - 0.25\mu maxi
- CONTACT RETENTION IN INSULATOR: mini 16N for straight contact PLATING TIN LEAD VERSION CONTACT: - GOLD OVER NICKEL ON MATING SURFACES - TIN LEAD OVER NICKEL ON TERMINATION PARTS mini 20N for right angled contact SHELL AND ACCESSORIES TIN LEAD OVER COPPER - VIBRATIONS: 10-2000Hz / 1.5 mm - 20g /3 x 2 HRS PLATING TIN VERSION INTERRUPTION < Iµs (NOT APPLICABLE FOR PL3) SHOCK: ACC. HALF SINE 50g- IIm.s-6x3 SHOCKS INTERRUPTION < lus NOTE ROHS INFORMATIONS - The "LF" products meet European union Directives and other country HARPOON INSERTION FORCE: <60N regulations as described in GS-22-008 The housing will whistand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6 mm minimum thickcircuit board. See application PERFORMANCE LEVELS notes/procedures if they are available. Termination plating spec: 1.27µm Nickel mini, 2.5 to 7.5 µm Sn (pure matte) Shell plating: 2 to 4 µm Cu + 3 to 10 µ Sn (pure bright) Accessories: Sn pure bright MECHANICAL ENDURANCE AND INDUSTRIAL ATMOSPHERE TEST(I) MECHANICAL ENDURANCE ONLY Packaging spec: see GS-14-920 PERFORMANCE P/N: DXXXXXCXXXXXX P/N:DXXXXXCXXXXXXX PERFORMANCE LEVELS LEVELS 4 salt spray: 24 hours PI 3 4 200 OPERATIONS PI 3 6 250 op + test (1 or 2)-10 days + 250 op PLI 6 400 OPERATIONS PII 1) INDUSTRIAL ATMOSPHERE TEST: 3 GASES available for contacts and grounding device surface tolerance projection www.fciconnect.com IN ACCORDANCE WITH IEC-68-2-60-TTD - TEST ke - MTH C OR IEC 512-6 TEST IIq $\oplus \subseteq$ FCI MIXED GASES: H2S=10 PPB±5.10-9vol/vol +N2O=200±50.10-9 vol/vol + CL2=10±5.10-9vol/vol Dr JOUBERT 30/11/00 Product family size Scale Itr ecn no dr date TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±3°C Eng Spec ref $\mathbb{T}:\mathbb{T}$ SJO 07/08/0 Chr Material SEE NOTES ECN LS05-0039 (2)INDUSTRIAL ATMOSPHERE TEST: 4 GASES available for contacts active area only [6] ES05-0039 EMA 26/01/05 Appr LEGARE 30/11/00 BELCORE TEST: MIXED GASES: H2S=10 PPB±5 vol/vol +N2O=200ppb±50 vol/vol + CL2 Rev. DELTA D SOLDER CTS CONNECTORS = 10ppb±3vo1/vol + S2O=100ppb±30vo1/vol
TEMPERATURE = 30±1°C / RELATIVE HUMIDITY= 70±2°C C01-8646-0000 GENERAL CHARACTERISTICS catalog no CUSTOMER COPY sheet I of I

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