



Recommended PCB Layout
(Bottom View)

Material and Finish

Body: PBT Thermoplastic,
UL94V-0 Rated, Black

Contacts: Copper Alloy

Contact Plating:
Gold Flash on Contact Area
Tin on Termination,
Both over Nickel underplate

Shield: Brass, Nickel Plated

Electrical Characteristics

Contact Resistance:
Before Durability Test:
Plug to Terminals: 30 Milliohms Max.
After Durability Test:
Plug to Terminals: 60 Milliohms Max.

Insulation Resistance:
500 Megohms Min.

Dielectric Withstanding Voltage:
500V AC RMS For 1 Minute

Contact Current Rating:
2A at 12V DC

Mechanical Characteristics

Durability Test: 500 Cycles Min. with test plug

Insertion Force: 4.5kg max.

Extraction Force: 0.4kg - 3.5kg

Operating Temperature: -25°C to +85°C

Tolerances
X.X ± 0.3
X.XX ± 0.15
Unless Stated Otherwise



REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A0	9/23/05	New Drawing	R. Aguirre	H. MA	R. Aguirre	9/23/05
A1	2/23/06	New Drawing	H. MA	N/A		
A2	12/08/08	ECO# 08-090	S. Vlen	H. MA		
A3	09/30/09	Add Dimension	S. Vlen	H. MA		
A4	09/23/10	ECO #10-064	S. Vlen	H. MA		
A5	03/18/11	ECO #11-020	S. Vlen	H. MA		

KMDGX-10S-BS

10 Pos. Mini-DIN, Fully Shielded, RoHS Compliant
Center Board Lock, Gold Flash Contacts

