

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 Megohms Max.

After Durability Test:  
Plug to Terminals: 60 Megohms 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: 0.5kg - 4.5kg

Operating Temperature: -25°C to +85°C

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

RoHS COMPLIANT  
EU Directive 2002/95/EC



KMDGX-10S-BS

10 Pos. Mini-DIN, Fully Shielded, RoHS Compliant

Center Board Lock, Gold Flash Contacts

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE	UNITS
A0	9/23/05	New Drawing	R. Aguirre	H. MA	R. Aguirre	9/23/05	mm
A1	2/23/06	New Drawing	H. MA	N/A			
A2	12/08/08	ECO# 08-090	S. Vien	H. MA			
A3	09/30/09	Add Dimension	S. Vien	H. MA			
A4	09/23/10	ECO #10-064	S. Vien	H. MA			
A5	05/27/11	ECO #11-020	S. Vien	H. MA			

# Mouser Electronics

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