

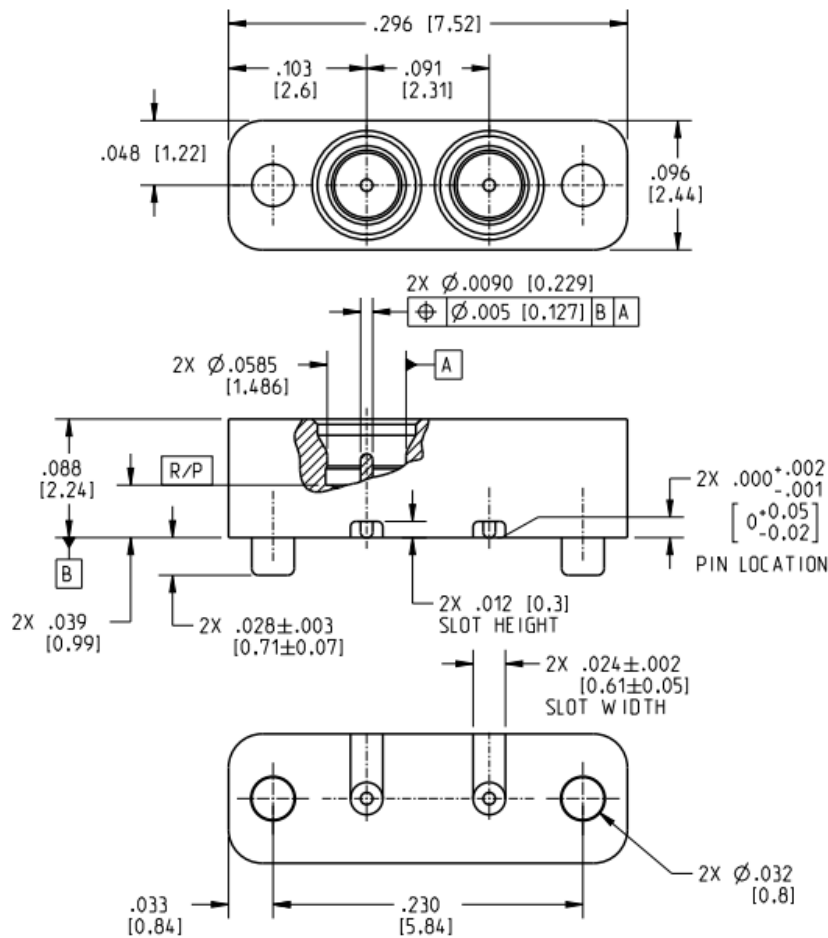
Technical Data Sheet

Rosenberger

WSMP

Male, Full Detent, High Frequency, 1 X 2 Port, SMT Shroud

W1S12K-40ML5



All dimensions are in inches [mm]
 Unless otherwise specified tolerances are as follows:
 .XXX \pm .001 [0,025]; .XXXX \pm .0005 [0,012]

Interface

According to

Rosenberger WSMP™ Interface standards

Material and plating

Connector parts

Body and Contact

Dielectric

Alignment Pin

Material

KOVAR® per ASTM F15

Corning 7070 Glass

SST per ASTM A582

Plating

Hard Gold, 6 μ N [0,15 μ m] over Nickel

Passivated

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Electrical data (@ STP unless otherwise specified)

Impedance	50 Ω
Frequency	DC to 100 GHz
Return loss	≥ 18 dB, DC to 40 GHz ≥ 15 dB, 40 to 70 GHz ≥ 12 dB, 70 to 100 GHz
Insertion loss	≤ 0.12 x √f (GHz) dB
Insulation resistance	≥ 3.5 GΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage	250 V rms
RF High Potential	150 V rms @ 5 MHz

Mechanical data

Mating cycles	
- Full Detent	≥ 100
Engagement force	
- Full Detent	2.5 lbf [11 N] max
Disengagement force	
- Full Detent	4.5 lbf [20 N] min

Environmental data

Temperature range	-55°C to +165°C
Thermal shock	MIL-STD-202-107, Condition B
Vibration	MIL-STD-202-204, Condition B
Shock	MIL-STD-202-213, Condition A
Moisture resistance	MIL-STD-202-106, except Step 7B
Corrosion	MIL-STD-202-101, Condition B
Max soldering temperature	IEC 61760-1, +500°F [+260°C] for 10 seconds
2002/95/EC (RoHS)	compliant

Documents

Mechanical PCB Layout	MB_W1S15K
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Packing

Standard

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OSR-730-05
RNA Datasheet2 Rev -
6/26/19

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
D. Fitzkee	07/25/19	B. Moyer	07/25/19	a01	Revised per ECN 20-u187	B. Moyer	07/17/20
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