

GL8103P5 MCX Plug to RG174 Cable Assembly

MODEL GL8103P5

150 mm MCX plug to RG174 coaxial pigtail with a bare copper welding end. The source specification lists operation at 2.4-4.5 GHz.



KEY PERFORMANCE

2.4-4.5 GHz

FREQUENCY

50 Ohm

IMPEDANCE

< 2.0

VSWR

MCX male / bare copper

CONNECTOR

PRODUCT HIGHLIGHTS

VERIFIED HIGHLIGHTS

150 mm RG174 pigtail with MCX male plug and bare copper welding end; pre-stripped 5.0 mm half-tin and 9.5 mm half-strip with 20 mm black heat shrink; same mechanical envelope as GL8103 but without the PCB/inductor block.

TYPICAL APPLICATIONS

VERIFIED APPLICATIONS

The source specification does not state a named application. Confirm the host integration requirements and 2.4-4.5 GHz operating range before ordering.

TECHNICAL SPECIFICATIONS

ELECTRICAL	
Frequency range	2.4-4.5 GHz
Impedance	50 Ohm Nominal
VSWR	< 2.0
MECHANICAL	
Connector A	MCX male, golden plated
Connector B	Bare copper plug for welding (no PCB, no inductor)
Cable type	RG174 coaxial copper
Cable color	Black
Cable length	150 +/- 10 mm
Heat shrink tube	Black, 6.0 x 20 mm
Storage temperature	-20 to +65 degrees C
Cable outer diameter	5.0 +/- 0.3 mm
Connector length	10.1 +/- 0.3 mm
Half-tin length	5.0 +/- 0.2 mm
Half-strip length	9.5 +/- 0.2 mm
MCX barrel diameter	3.3 / 1.9 mm
COMPLIANCE	
RoHS	All material comply with RoHS standards



PRODUCT DATASHEET

SKU GL8103P5
Rev. 1.0 | 2026-09-13

ELECTRICAL

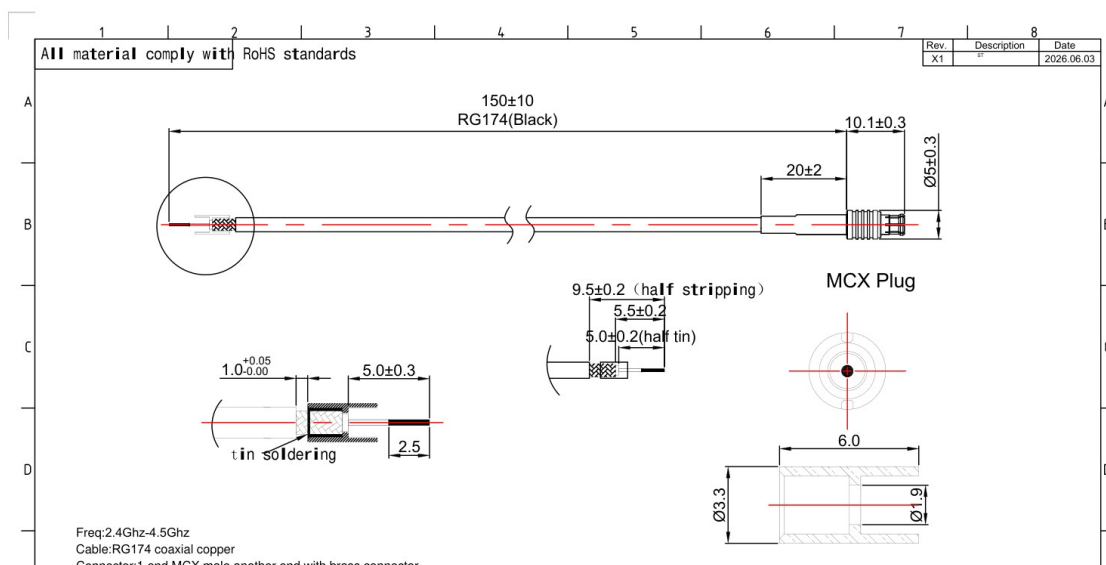
Tolerance

X.XXX +/- 0.1 mm; X.XX +/- 0.2 mm; X.X +/- 0.5 mm; X. +/- 2.0 mm;
angles +/- 3 degrees

NOTES

Test data for this version covers 1-6 GHz on the network analyzer and 1-6 GHz in the S-parameter table, while the GL8103 (with PCB+inductor) test data only covers up to 5 GHz.

TEST & DRAWING APPENDIX



NETWORK ANALYZER SCREENSHOT (1-6 GHZ)

Tr1 S11 SWR @ 1 GHz	1.1267
Tr1 S11 SWR @ 2 GHz	1.1620
Tr1 S11 SWR @ 2.4 GHz	1.2675
Tr1 S11 SWR @ 3 GHz	1.0483
Tr1 S11 SWR @ 4 GHz	1.2673
Tr1 S11 SWR @ 4.5 GHz	1.4397
Tr1 S11 SWR @ 5 GHz	1.5611
Tr1 S11 SWR @ 6 GHz	Not measured (SWR limit marker)
Tr2 S22 SWR @ 1 GHz	1.1128
Tr2 S22 SWR @ 2 GHz	1.1730
Tr2 S22 SWR @ 2.4 GHz	1.3592
Tr2 S22 SWR @ 3 GHz	1.0670
Tr2 S22 SWR @ 4 GHz	1.3984
Tr2 S22 SWR @ 4.5 GHz	1.4764
Tr2 S22 SWR @ 5 GHz	1.6157
Tr2 S22 SWR @ 6 GHz	Not measured (SWR limit marker)

S-PARAMETER DATA TABLE (1-6 GHZ)

S11 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 / 6 GHz	1.126 / 1.28 / 1.28 / 1.048 / 1.267 / 1.439 / 1.561
S22 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 / 6 GHz	1.112 / 1.26 / 1.23 / 1.067 / 1.398 / 1.476 / 1.615
S21 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 / 6 GHz	-0.310 / -0.28 / -0.23 / -0.637 / -0.761 / -0.842 / -1.236 dB
S12 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 / 6 GHz	-0.317 / -0.30 / -0.36 / -0.622 / -1.035 / -1.172 / -0.923 dB

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