

GL8103 MCX Male to RG174 Cable Assembly with PCB and Inductor

MODEL GL8103

150 mm MCX male to RG174 coaxial pigtail with PCB-stabilised inductor termination. 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 / PCB+Inductor

CONNECTOR

PRODUCT HIGHLIGHTS

VERIFIED HIGHLIGHTS

150 mm RG174 pigtail with MCX male and PCB-mounted inductor termination; pre-stripped 5.0 mm half-tin and 9.5 mm half-strip with 20 mm black heat shrink; all materials RoHS-compliant.

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	Brass connector on PCB with wire-wound 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 GL8103
Rev. 1.0 | 2026-09-13

ELECTRICAL

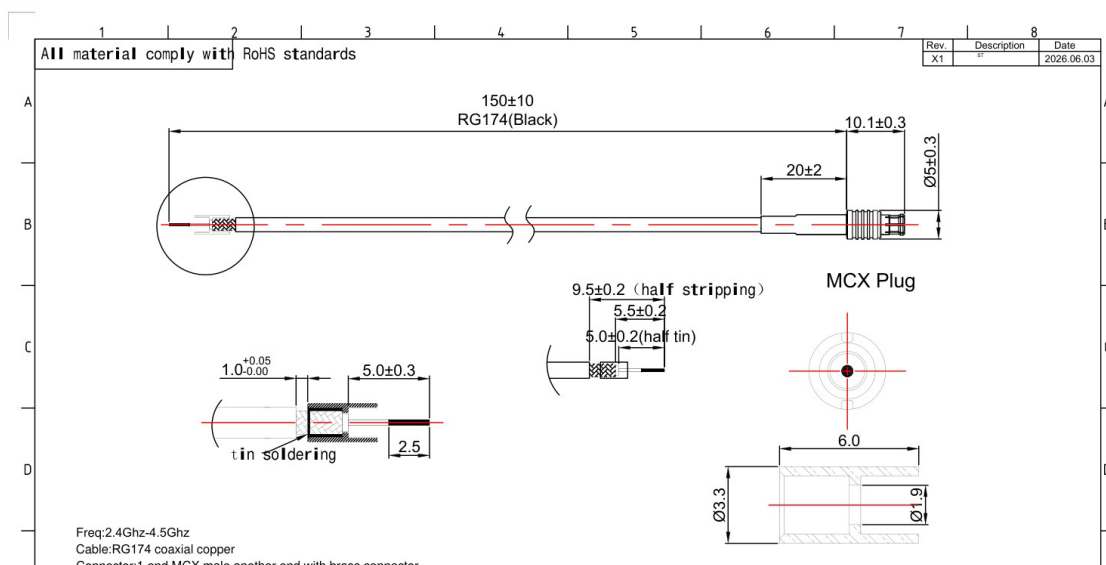
Tolerance

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

NOTES

Source PDF cover labels the part GL8103 while the drawing title block still shows GL8103-P5; we follow the cover and treat the PCB+inductor variant as GL8103. The inductor part number printed on the source drawing is intentionally not repeated in this datasheet.

TEST & DRAWING APPENDIX



NETWORK ANALYZER SCREENSHOT (1-5 GHZ)

Tr1 S11 SWR @ 1 GHz	1.0763
Tr1 S11 SWR @ 2 GHz	1.3964
Tr1 S11 SWR @ 2.4 GHz	1.0752
Tr1 S11 SWR @ 3 GHz	1.1482
Tr1 S11 SWR @ 4 GHz	1.2530
Tr1 S11 SWR @ 4.5 GHz	1.3211
Tr1 S11 SWR @ 5 GHz	1.3299
Tr2 S22 SWR @ 1 GHz	1.0155
Tr2 S22 SWR @ 2 GHz	1.2975
Tr2 S22 SWR @ 2.4 GHz	1.0268
Tr2 S22 SWR @ 3 GHz	1.1198
Tr2 S22 SWR @ 4 GHz	1.2829
Tr2 S22 SWR @ 4.5 GHz	1.2473
Tr2 S22 SWR @ 5 GHz	1.1549

S-PARAMETER DATA TABLE (1-5 GHZ)

S11 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 GHz	1.07 / 1.28 / 1.28 / 1.05 / 1.27 / 1.44
S12 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 GHz	-0.24 / -0.30 / -0.36 / -0.62 / -0.76 / -0.84 dB
S22 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 GHz	1.01 / 1.26 / 1.23 / 1.07 / 1.40 / 1.48
S21 @ 1 / 2.4 / 3 / 4 / 4.5 / 5 GHz	-0.24 / -0.30 / -0.36 / -0.62 / -0.76 / -0.84 dB

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