DESCRIPTION

PMI MODEL NO. QC-500M18G-90 IS A QUADRATURE COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 500 MHz TO 18.0 GHz. IT HAS A MINIMUM ISOLATION OF 14 dB AND A MAXIMUM INSERTION LOSS OF 3.5 dB. THIS PRODUCT IS OUTFITTED WITH SMA FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	5/18/2021	

MECHANICAL OUTLINE

SPECIFICATIONS

• FREQUENCY RANGE: ----- 500 MHz TO 18.0 GHz

----- 3.01 dB NOMINAL SPLIT: ------

INSERTION LOSS: ----- ≤3.5dB

• ISOLATION: ----- ≥14dB

AMPLITUDE BALANCE: ---- ≤±1.2dB

PHASE BALANCE: ---- ≤±12°

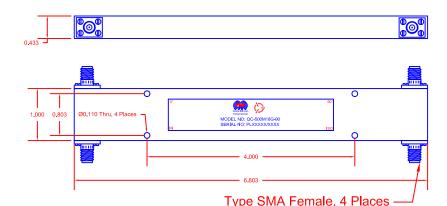
--- ≤1.80:1

POWER HANDLING: ----- Average ≤20Watt

Peak ≤0.5KW

• IMPEDANCE: ----- 50 OHMS

CONNECTORS: ----- SMA FEMALE



ENVIRONMENTAL RATINGS

• TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING) -65 °C TO +125 °C (STORAGE)

• HUMIDITY; ----- UP TO 95%, NON-CONDENSING

• SHOCK: ----- MIL-STD-202, METHOD 213B COND. B

VIBRATION; ----- MIL-STD-202, METHOD 204D COND, B

...... MIL-STD-202, METHOD 105C COND. B

TEMPERATURE CYCLE; ------------ MIL-STD-202, METHOD 107D COND, A

ALL DIMENSIONS ARE IN INCHES [mm] TOLERANCES: X.XX

±0.020 X.XXX

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7311-F GROVE ROAD

PLANAR MONOLITHICS INDUSTRIES, INC.

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY