

TECHNICAL DATA

► Electrical Data

Frequency Range	225~680MHz
Insertion Loss	0.5dB max
VSWR	1.3:1 max
Isolation	17dB min
Phase Balance	±5°
Amplitude Balance	±1.0dB max
Power Handling	100W

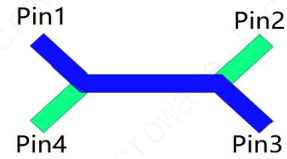
► Mechanical Data

Dimensions	16.51×12.19×2.5mm
Connector Type	SMD
Surface Finish	Immersion Gold
	-Prevent surface from oxidation and scratch

► Environmental Data

Operating Temperature	-55℃~+105℃
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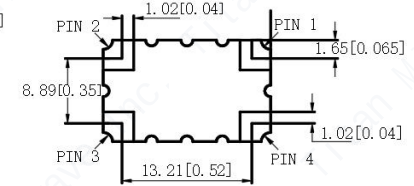
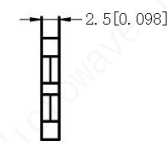
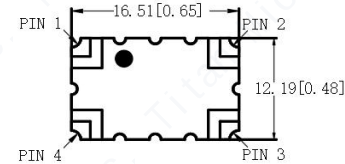
Pin Configuration



TOP VIEW

SIDE VIEW

BOTTOM VIEW



Configuration	Pin 1	Pin 2	Pin 3	Pin 4
Splitter	Input	Isolated	-3dB ∠ 0-90°	-3dB ∠ 0
Splitter	Isolated	Input	-3dB ∠ 0	-3dB ∠ 0-90°
Splitter	-3dB ∠ 0-90°	-3dB ∠ 0	Input	Isolated
Splitter	-3dB ∠ 0	-3dB ∠ 0-90°	Isolated	Input
Combiner	A ∠ 0-90°	A ∠ 0	Isolated	Output
Combiner	A ∠ 0	A ∠ 0-90°	Output	Isolated
Combiner	Isolated	Output	A ∠ 0-90°	A ∠ 0
Combiner	Output	Isolated	A ∠ 0	A ∠ 0-90°

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2022/11/22	C. Chen

Notes:

- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
- CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

DRAWN: L. Ma 22/11/22
ENGINEER: J. Zhu 22/11/22
APPROVED: C. Chen 22/11/22
TOLERANCE UNLESS OTHERWISE SPECIFIED
x ±0.50 [0.019"]
.x ±0.20 [0.008"]
.xx ±0.10 [0.004"]
ANGLES ±1°

TITLE:

SMD 3dB 90° High Power
Hybrid Coupler,
225-680MHz, 100W

PART No.:

TMHC0452L03



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

SIZE: A4	SCALE:	SHEET: 1/1	REV: A
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