

TECHNICAL DATA

► Electrical Data

Frequency Range	470~860MHz
Insertion Loss	0.2dB max
VSWR	1.2:1 max
Isolation	20dB min
Phase Balance	±1°
Amplitude Balance	±0.5dB max
Power Handling	500W

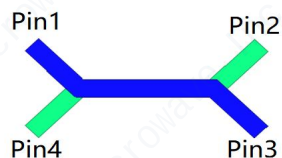
► Mechanical Data

Dimensions	25.4×12.7×4.5mm
Connector Type	SMD
Surface Finish	Immersion Gold
	-Prevent surface from oxidation and scratch

► Environmental Data

Operating Temperature	-55℃~+105℃
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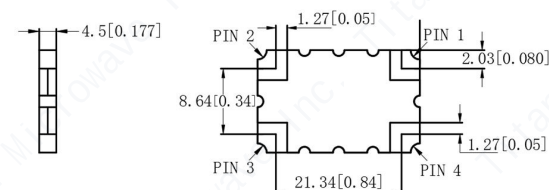
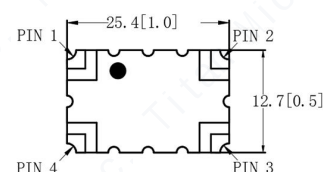
Pin Configuration



Top View

Side View

Bottom View



Configuration	Pin 1	Pin 2	Pin 3	Pin 4
Splitter	Input	Isolated	-3dB ∠ θ-90°	-3dB ∠ θ
Splitter	Isolated	Input	-3dB ∠ θ	-3dB ∠ θ-90°
Splitter	-3dB ∠ θ-90°	-3dB ∠ θ	Input	Isolated
Splitter	-3dB ∠ θ	-3dB ∠ θ-90°	Isolated	Input
Combiner	A ∠ θ-90°	A ∠ θ	Isolated	Output
Combiner	A ∠ θ	A ∠ θ-90°	Output	Isolated
Combiner	Isolated	Output	A ∠ θ-90°	A ∠ θ
Combiner	Output	Isolated	A ∠ θ	A ∠ θ-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,
470-860MHz, 500W

PART No.:

TMHC0650B03



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

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