

TECHNICAL DATA

► Electrical Data

Frequency Range	400~2500MHz
Insertion Loss	0.4dB max
VSWR	1.22:1 max
Isolation	20dB min
Phase Balance	±2°
Amplitude Balance	±1.15dB max
Power Handling	50W

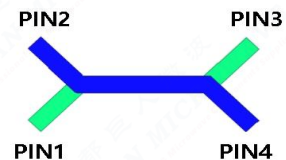
► Mechanical Data

Dimensions	25.4×12.7×5.3mm
Connector Type	SMD
Surface Finish	Immersion Gols
	-provent surface from oxidation and scratch

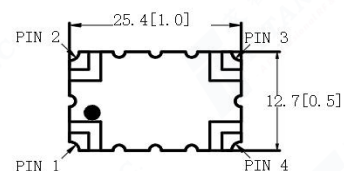
► Environmental Data

Operating Temperature	-55℃~+105℃
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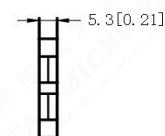
Pin Configuration



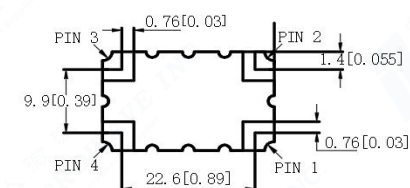
Top View



Side View



Bottom View



Configurati on	Pin 1	Pin 2	Pin 3	Pin 4
Splitter	Input	-3dB ∠θ	-3dB ∠θ-90°	Isolated
Splitter	-3dB ∠θ	Input	Isolated	-3dB ∠θ-90°
Splitter	-3dB ∠θ-90°	Isolated	Input	-3dB ∠θ
Splitter	Isolated	-3dB ∠θ-90°	-3dB ∠θ	Input
Combiner	-3dB ∠θ-90°	Output	Isolated	-3dB ∠θ
Combiner	Output	-3dB ∠θ-90°	-3dB ∠θ	Isolated
Combiner	Isolated	-3dB ∠θ	-3dB ∠θ-90°	Output
Combiner	-3dB ∠θ	Isolated	Output	-3dB ∠θ-90°

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,
400-2500MHz, 50W

PART No.:

TMHC1450W03S



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

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