

TECHNICAL DATA

► Electrical Data

Frequency Range	700~1250MHz
Insertion Loss	0.22dB max
VSWR	1.25:1 max
Isolation	20dB min
Phase Balance	±3°
Amplitude Balance	±0.45dB max
Power Handling	225W

► Mechanical Data

Dimensions	14.22×8.89×2.5mm
Connector Type	SMD
Surface Finish	Immersion Gold
	-Prevent surface from oxidation and scratch

► Environmental Data

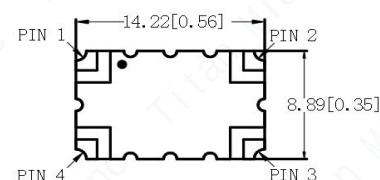
Operating Temperature	-55℃~+105℃
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Pin Configuration

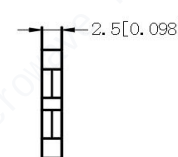


REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2022/11/22	C. Chen

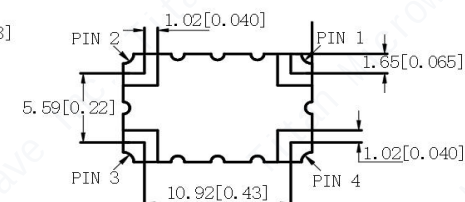
Top View



Side View



Bottom View



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

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,
700-1250MHz, 225W

PART No.:

TMHC0975A03H



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

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