

TECHNICAL DATA

► Electrical Data

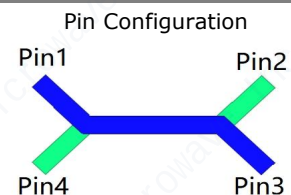
Frequency Range	88~274MHz
Insertion Loss	0.3dB max
VSWR	1.2:1 max
Isolation	23dB min
Phase Balance	±2.5°
Amplitude Balance	±0.95dB max
Power Handling	300W

► Mechanical Data

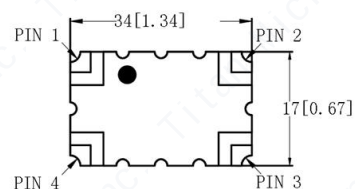
Dimensions	34×17×2.5mm
Connector Type	SMD
Surface Finish	Immersion Gold
	-Prevent surface from oxidation and scratch

► Environmental Data

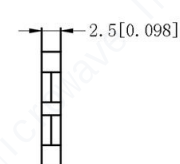
Operating Temperature	-55℃~+105℃
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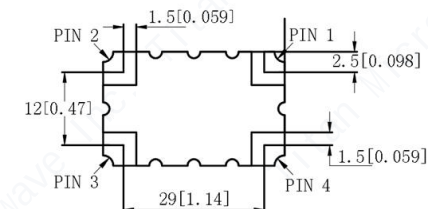
TOP VIEW



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°

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,
88-274MHz, 300W

PART No.:

TMHC0180W03



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

SIZE:
A4

SCALE:

SHEET:
1/1

REV:
A