

TECHNICAL DATA

► Electrical Data

Frequency Range	500~3000MHz
Insertion Loss	0.45dB max
VSWR	1.28:1 max
Isolation	18dB min
Phase Balance	±3°
Amplitude Balance	±1.1dB max
Power Handling	300W

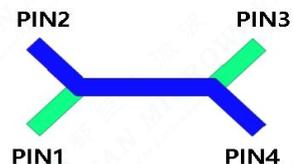
► Mechanical Data

Dimensions	32×22×5.3mm
Connector Type	SMD
Surface Finish	Immersion Gold
	-Prevent surface from oxidation and scratch

► Environmental Data

Operating Temperature	-55°C~+95°C
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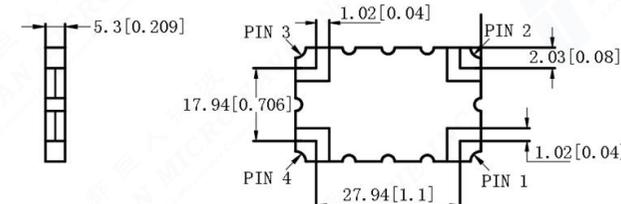
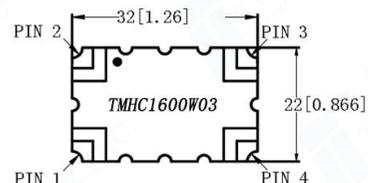
Pin Configuration



Top View

Side View

Bottom View



Configuration	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°

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2026/2/25	C. Chen

Notes:

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

DRAWN: L. Ma 25/02/26
ENGINEER: J. Zhu 25/02/26
APPROVED: C. Chen 25/02/26
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,
500-3000MHz, 300W

PART No.:
TMHC1600W03

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DIMENSIONS IN MILLIMETERS(mm)

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