

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2022/4/16	C. Chen

TECHNICAL DATA

► Electrical Data

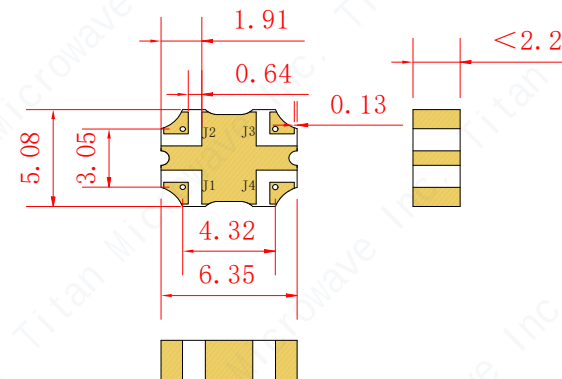
Frequency Range	8~12GHz
Insertion Loss(average)	≤0.6dB
VSWR	≤1.5:1
Isolation	≥15dB
Phase Balance	≤±6°
Amplitude Balance	≤±0.6dB
Power Handling	50W(CW)

► Mechanical Data

Dimensions	6.35×5.08×2.2mm max
Connector Type	SMD
Surface Finish	Immersion Gold

► Environmental Data

Operating Temperature	-55℃~+85℃
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INPUT	J1	J2	J3	J4
J1	-----	-3dB<0°	-3dB<-90°	ISOLATION
J2	-3dB<0°	-----	ISOLATION	-3dB<-90°
J3	-3dB<-90°	ISOLATION	-----	-3dB<0°
J4	ISOLATION	-3dB<-90°	-3dB<0°	-----

Notes:

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

DRAWN: L. Ma 16/04/22		
ENGINEER: J. Zhu 16/04/22		
APPROVED: C. Chen 16/04/22		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

TITLE:
SMD 90° Hybrid Coupler,
3dB, 8-12GHz,
50W

PART No.:
TM0163-3A



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

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