

Directional Coupler

0.5-18 GHz

General Purpose

DIRECTIONAL COUPLER

- Broadband Frequency Coverage from 0.5 to 18 GHz
- Flat Frequency Response
- Small, Lightweight



Specifications

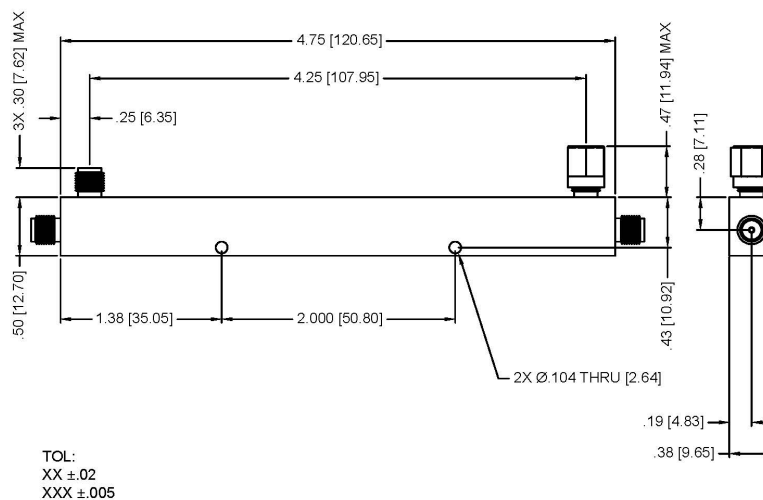
SMA (F), 2-Way, 0.5 to 18 GHz

Frequency Range (GHz)	Model	Frequency (GHz)	Coupling (dB)	Directivity (dB min.)	Insertion Loss Excluding Coupled Power	VSWR		Frequency Sensitivity (dB max.)	Maximum Deviation from Nominal (dB)	Power		Outline
						Primary Line (max.)	Secondary Line (max.)			AVG. Forward (W)	AVG. Reflected (W)	
0.5-2	NMDC-0R502-10	0.5-2	10	20	1.0	1.3	1.3	±0.5	±0.5	20	10	A
	NMDC-0R502-20	0.5-2	20	20	1.0	1.3	1.3	±0.5	±0.5	50	50	A
1-2	NMDC-0102-10	1-2	10	24	0.2	1.15	1.15	±0.75	±0.5	50	5	C
	NMDC-0102-20	1-2	20	24	0.2	1.15	1.15	±1.0	±0.5	50	50	C
2-4	NMDC-0204-10	2-4	10	22	0.2	1.2	1.2	±0.75	±0.5	50	5	D
	NMDC-0204-20	2-4	20	22	0.2	1.2	1.2	±1.0	±0.5	50	50	D
2-8	NMDC-0208-10	2-8	10	20	0.5	1.3	1.3	±0.5	±0.5	50	5	C
	NMDC-0208-20	2-8	20	20	0.5	1.3	1.3	±0.5	±0.5	50	50	C
0.5-18	NMDC-0R518-10	0.5-12.4	10	15	1.5	1.5	1.5	±1.1	±1.0	20	10	B
		12.4-18		12								
	NMDC-0R518-20	0.5-12.4	20	15	0.9	1.5	1.5	±1.1	±1.0	50	50	B
		12.4-18		12								
6-18	NMDC-0618-10	6-18	10	12	0.6	1.45	1.5	±0.6	±0.5	50	5	E
	NMDC-0618-20	6-18	20	14	0.6	1.45	1.5	±0.7	±0.5	50	50	E

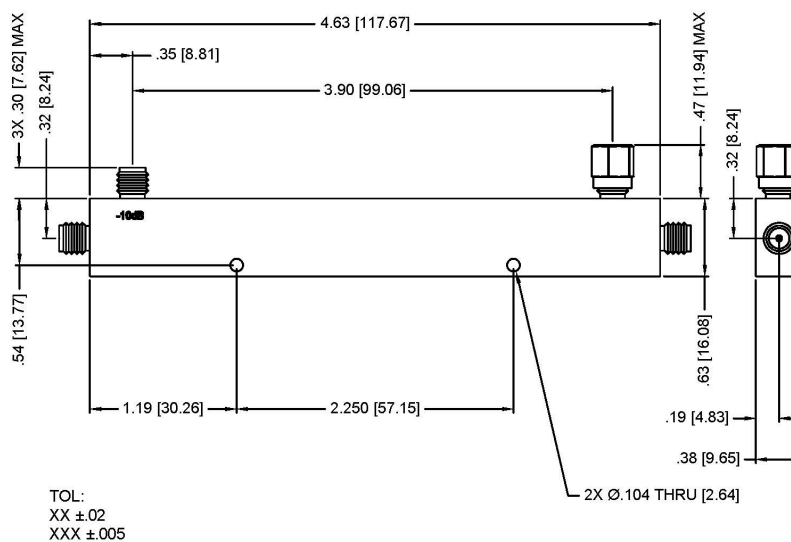
Directional Coupler

Outline Drawings

Outline
A



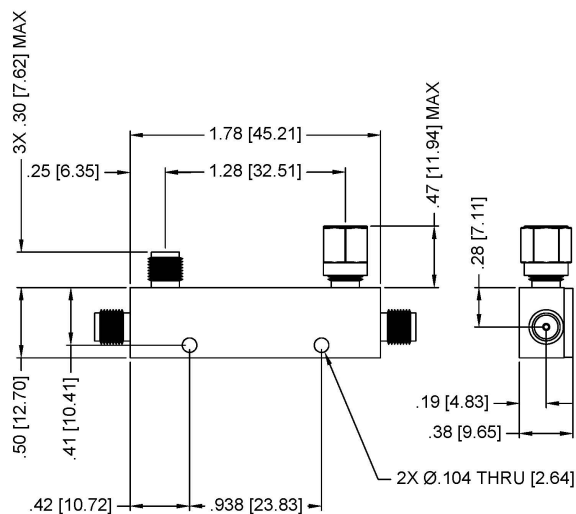
Outline
B



Directional Coupler

Outline Drawings

Outline
C

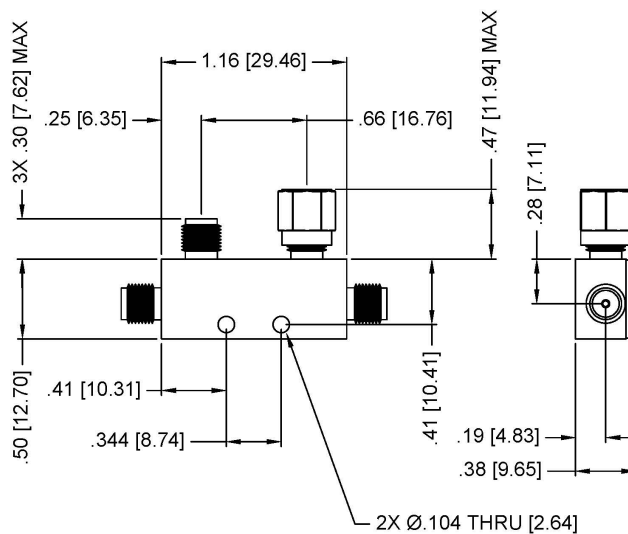


TOL:
XX ± .02
XXX ± .005

NOTES:

1. ALLOW .020 MAX BUILD UP OF PAINT PER SURFACE, EXCLUDING MOUNTING HOLES.
2. CONNECTORS MATE PER MIL-STD-348.

Outline
D



TOL:
XX ± .02
XXX ± .005

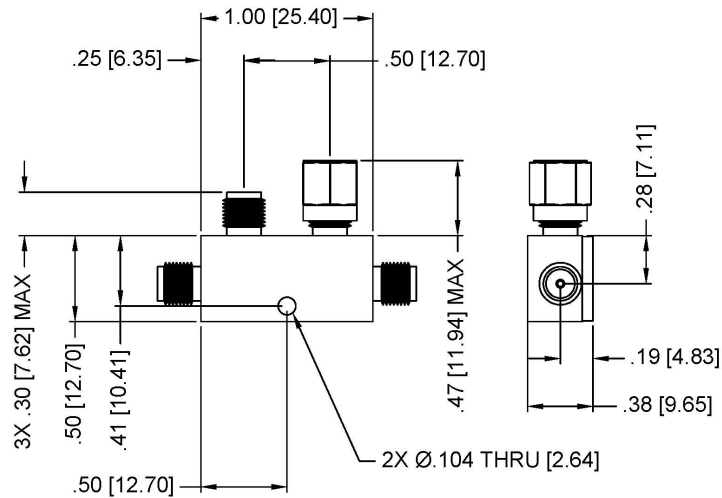
NOTES:

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Directional Coupler

Outline Drawings

Outline
E



TOL:
XX ± .02
XXX ± .005

NOTES:
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2. CONNECTORS MATE PER MIL-STD-348.

