

ELECTRICAL

FREQUENCY RANGE _____ 4-12.4 GHz

VSWR _____ 1.35:1 MAX.

IMPEDANCE _____ 50 OHMS

COUPLING
J3 - J2 _____ SEE TABLE

INSERTION LOSS
J1 - J2 _____ 0.5dB + COUPLING LOSS

DIRECTIVITY _____ 15dB MIN.

OPERATING TEMP RANGE _____ 4 KELVIN TO +125°C

MECHANICAL

CONTACTS _____ GOLD PLATED BeCu

CONNECTOR HOUSING _____ BeCu

CIRCUIT CASE _____ UNS C103 (CW008A) OFE (OXYGEN
FREE ELECTRONIC). NICKELLESS
GOLD PLATE

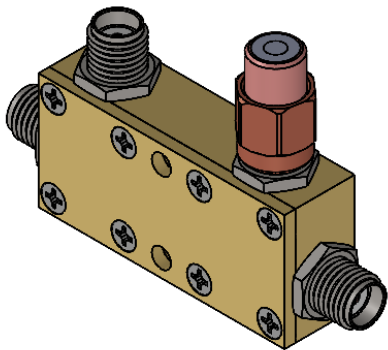
MARKING

PART LOOKS LIKE PRODUCT DISPLAYED.

PART MARKING ORIENTATION AND FORMAT AS SHOWN.

MARKING IS TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE.

YYWW EQUALS DATE CODE.



PART NUMBER	COUPLING
OS2020-7000-10-CRYO	10 ±1.0 dB
OS2020-7000-20-CRYO	20 ±1.0 dB

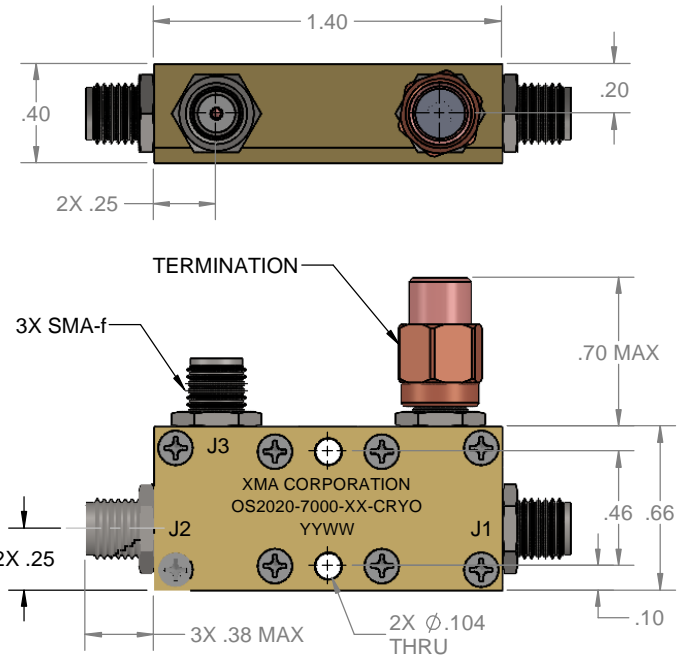
DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000	
DIMENSIONS ARE IN INCHES AND APPLY BEFORE / AFTER PROCESSING	
SURFACE ROUGHNESS μINCHES	63
FINISH:	
MATERIAL:	
NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.	
INTERPRET IAW ANSI Y14.5-1982	

UNLESS OTHERWISE SPECIFIED TOLERANCES IN:		
DECIMALS	INCH	[MM]
.X"	.05"	[1.27]
.XX"	.03"	[.76]
.XXX"	.010"	[.25]
ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.		
DO NOT SCALE PRINT		

DRAWN MCCORMICK	DATE 6/30/22
CHECKED MCCORMICK	DATE 6/30/22
ENG. APPR. MCCORMICK	DATE 6/30/22
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REVISIONS

REV	DESCRIPTION	ECO #	DATE	APPROVED
X1	PRELIMINARY RELEASE	22-NP024	6/30/22	DEL P



QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
	OS2020-7000-XX-CRYO	DIRECTIONAL COUPLER, 4-12.4 GHz, SMA-f, CRYO	
1	TA-OS2020-7001-20U-CRYO	ASSEMBLY, DIRECTIONAL COUPLER, 4-12.4 GHz, SMA-f, CRYO, UNMARKED	1



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TITLE

DIRECTIONAL COUPLER, 4-12.4 GHz, CRYO

SIZE	CAGE CODE	DRAWING NUMBER	REV
B	3HT76	OS2020-7000-XX-CRYO	X1
SCALE	PLATED AREA SQ. IN	SHEET 1 OF 1	