

C-0218-06-001

SMA Directional Coupler, 6dB from 2-18 GHz

Rev. OR

Electrical

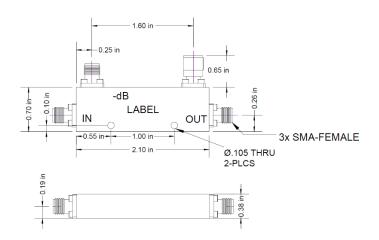
Frequency	2-18 GHz
VSWR	1.8:1 max
Impedance	50 ohm
Coupling	$6 \text{ dB} \pm 1.0 \text{ dB}$
Flatness	± 1.0 dB
Insertion Loss	2.0 dB max
Directivity	12 dB min
Power Handling	20 W CW

Mechanical

Connector Interface	Per MIL-STD-348B
Operating Temperature	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight	1.4 oz
Humidity	10-90% non-condensing

Materials

Enclosure	Aluminum
Connectors	Stainless Steel
Contacts	BeCu, Gold Plated
Insulators	PTFE
Solder	RoHS Compliant
Finish	Black Paint



Dimensions are in inches, [mm] shown for convenience. Tolerances on 2-pl decimals: ±.03. 3-pl decimals: ± .015.

ISO 9001:2015 Certified



Made in USA







Coupling Value and Flatness Directionality Coupling [D&M] S21 Trans LogM RefLvI: -6 dB Res: 0.5 dB/Div Directivity [D/M] S21 Trans LogM RefLvI: -15 dB Res: 3 dB/Div M1(Tr1) -9 16.94 GHz -15 0705 dB M1 -4 17.78 GHz -7.119 dB M1 -12 -4.5 17 GI -<u>5 1705 dD</u> 2 -15 🖡 -5 -18 -5.5 -21 -61 -24 -6.5 l -27 -7 -7.5 -30 -8 -33 ▲ 2 GHz 18 GHz 10 GHz 18 GHz 2 GHz 10 GHz Insertion Loss **Return Loss** S22 Refl LogM RefLvl: -14 dB Res: 3 dB/Div VSWR S21 Trans LogM RefLvl: -2 dB Res: 0.2 dB/Div InsLoss -5 -0.8 9.28 GHz -15.6738 dB M1 : 2.92 GHz -1.8633 dB M1 : -8 -1 -11 -1.2 1 -14 -1.4 -17 -1.6 1 -20 -1.8 -23 -2 🕨 -26 -2.2 -29 A 10 GHz -2.4 2 GHz 2 GHz 18 GHz 10 GHz 18 GHz

Typical Performance at +25 °C

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