

Commercial Equivalent Couplers

MIL-P-23971/2

203X Series

V2.00

Military Dash Number	M/A-COM Part Number	Frequency Range (GHz)	Coupling (dB) (Mid-Frequency)	Output To Output Amplitude Equality (dB Max.)	Output To Output Phase Equality (Max.) ¹	Isolation (dB Min.)	Insertion Loss (dB Max.) ²	VSWR (Max.) Primary Line
-06	2030-4006-00	.5-1.0	3.0 ^{+0.2} _{-0.0}	± 0.5	± 1.5	18	.25	1.25:1
-07	2035-4002-00	1.0-2.0	3.0 ^{+0.2} _{-0.0}	± 0.5	± 1.5	18	.25	1.25:1
-08	2035-4003-00	2.0-4.0	3.0 ^{+0.2} _{-0.0}	± 0.5	± 2.0	18	.25	1.25:1
-09	2035-4004-00	4.0-8.0	3.0 ^{+0.35} _{-0.0}	± 0.5	± 2.0	18	.35	1.30:1
-10	2032-4041-00	7.0-11.0	3.0 ^{+0.5} _{-0.0}	± 0.5	± 2.0	17	-	1.45:1
-11	2035-4005-00	8.0-12.4	3.0 ^{+0.4} _{-0.0}	± 0.5	± 3.0	15	.40	1.35:1
-12	2035-4006-00	12.4-18.0	3.0 ^{+0.5} _{-0.0}	± 0.5	± 5.0	15	.50	1.45:1

Notes:

Para. 3.4.6 MIL-C-22750 Epoxy paint will be used.
Para. 3.11 Units will be humidity sealed.

1. Phase Equality is defined as the difference in phase between the outputs from the nominal phase difference. For example, the quadrature coupler has a 90° nominal phase difference, so a typical measurement would be 90 ± 3°.
2. Insertion Loss is defined as the net unrecovered power, in dB, based on one-way transmission through the device at any particular frequency.