General Hybrid and Directional Coupler Application Note

Applications (Frequency)		Max. Input Power (CW) NOTE 1	Suggested Hybrix ® Couplers	Suggested Terminations
Base Station Remote Radio Head Wireless Combiner	US LTE (700 - 800 MHz)	150 W	HPT3F	SMT2010TALNF
		200 W	HDT2F D3MDxxF	SMT2010TALNF
	GSM (800 - 960 MHz)	80 W	HPD3F D3PDxxF	SMT1206ALNF
		100 W	HMD3F	SMT1206ALNF
		200 W	HDDF D3MDxxF	SMT2010TALNF
	AWS PCS UMTS (1700 - 2200 MHz)	80 W	D3PJxxF D3PLxxF	SMT2010A
		100 W	HPK2F	SMT2010A
		200 W	HDJ3F HDL3F D3DJxxF D3DLxxF	SMT2010TALNF
	2.5 GHz WiMAX IMT-2000 Extension (2300 - 2700 MHz)	35 W	HPP2F	SMT2010A
		80 W	D3PPxxF	SMT2010A
		100 W	HMP2F	SMT2010A
		200 W	HDP3F D3DPxxF	SMT2010TALNF
	3.5 GHz WiMAX (3300 - 3900 MHz)	60 W	HPR2F D3PRxxF	SMT2010TALNF
		200 W	HMR2F D3DRxxF	SMT2010TALNF
Broadcast	DTV (54 - 800 MHz)	500 W	HLB2F	SMT2010F 32A1050F
Public Safety	US Public Safety (763 - 798 MHz)	150 W	HPT3F D3PVxxF	SMT2010TALNF
	TETRA (380 - 470 MHz)	200 W	HDC3F	SMT2010TALNF
Point-Point Radio Radar Satellite	C-Band (4 - 8 GHz)	20 W	HUU2F D3FUxxF	CT0402D
		50 W	HPU2F	CT2010 32-1070
		80 W	D3PIxxF	CT2010 32-1070
	X-Band (8 - 12 GHz)	20 W	HPX2F	CT0505D
MRI	1.5 T (64 MHz)	10 W	HD064M3F	
		300 W	HG064M2F	32M7200F
	3 T (128 MHz)	10 W	HD128M3F	
		300 W	HE128MF	32M7200F
	7 T (298 MHz)	300 W	HE298MF	32M7200F

	9.4 T (400 MHz)	300 W	HE450M2F	32M7200F
Green Technology	RF/Plasma Lighting (2.4 GHz)	100 W	HPK2F	SMT2010A
		200 W	HDP3F D3DLxxF	SMT2010TALNF
	Smart Meters (2.4 GHz)	20 W	HFL3F	SMT2010A
	RF Heating (2.4 GHz)	250 W	HAP3F	SMT2010TALNF

Note:
1. Listed value is maximum input power into directional coupler. Power handling of the suggested terminations is based on the following assumption: 1.30:1 output VSWR, 3-dB nominal coupling, and 20-dB minimum isolation.