

TwinPulse400 用于核磁共振的双频段射频放大器



- 新的 Tomco TwinPulse400 是四种不同 Herley/AMT 3900 型号 (3900-1S4、3900-1S7、3900B-15B、3900C-12) 的单一低成本替代品
- 公布的规格等于或优于等效 Herley/AMT 放大器, 包括更宽的带宽、更低的噪声系数、更低的消隐噪声、更长的脉冲宽度
- 100% 兼容的接口和连接
- 机械等效
- 低频段 5-300MHz, 300W PEP 高频段 200-650MHz, 100W PEP
- 这些放大器可用于一系列 NMR 系统, 包括 Varian Unity、Mercury 和 Inova 系统。也可用于布鲁克光谱仪。



Key Specifications



	Channel A	Channel B
Bandwidth	200-650MHz	5-300MHz
PEP @ 0dBm in	100W	300W
Max. pulse width	300ms	300ms
Max. duty cycle	20%	20%
Power in CW mode	15W	30W

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型号	TwinPulse400	
类型	Class AB, LDMOS	
Frequency range Channel A Channel B	200-650MHz 5-300MHz	
脉冲功率 Channel A Channel B	100W minimum 300W minimum	Across full frequency range
连续波功率 Channel A Channel B	15W minimum 30W minimum	Into a 50W load
线性度 Channel A Channel B	±1dB from 0.08-80W ±1dB from 0.25-250W	
幅度下降 Channel A Channel B	5% maximum 5% maximum	at 300ms, 80W at 300ms, 200W
脉冲宽度	300ms maximum, both channels	Blanking pulse width, internally limited
幅度上升时间 Channel A Channel B	150ns maximum 500ns maximum	
输入电压驻波比	2:1 maximum, both channels	
输出噪声消隐	15dB over thermal, maximum, both channels	
噪声系数	15dB maximum, both channels	

最大射频输入电平	0dBm, both channels	
最大占空比	20%, both channels	Blanking pulse duty-cycle, internally limited
Phase change over linear output power range	20° maximum, both channels	
脉冲宽度上的相移	6° maximum, both channels	At 300ms pulse width
消隐延迟	2ms maximum, both channels	
保护	Input overdrive, over duty, over pulse width, over temperature	All protection is self-resetting upon correction of the fault
连接器	RF input: BNC(F) x 2 RF output: N-type (F) x 2 Noise blanking: BNC (F) x 2 Interface: D25 (F)	All connectors are on the rear panel in the standard configuration. Front panel connectors are available as option
前面板 LED 指示灯	DC supply status Over pulse width / duty cycle Over temperature CW mode active (x2)	
冷却	Forced air, front to rear	
Operating ambient temperature	10 - 40°C	
AC supply	110-240V AC, 50-60Hz universal input	Standard IEC mains inlet
AC supply rating	1000VA minimum	
Size	5.25"H x 19"W x 25.6"D	
Weight	20kg	

Change record

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