



HIGH POWER CW TWT AMPLIFIER

1.1 2-4GHz/250W

SPECIFICATIONS, MWT020040G5456AC

Electrical	
Frequency	2.0 to 4.0 GHz
Output Power	TWT 250 W min. Flange 220 W min.
Bandwidth	2.0 GHz
Gain	54 dB min. at rated power output; 56 dB typ. at small signal
RF Level Adjust	0 to 20 dB continuous
Gain Variation	12.0 dB pk-pk max.
Input VSWR	2.5:1 typ
Output VSWR	2.5:1 typ.
Load VSWR	1.5:1 max. for full spec compliance; 2.0:1 max. continuous operation;
Harmonic Content	-6 dBc typical at lower band edge
Primary Power	220-240 VAC \pm 10%, single phase, 47-63 Hz
Power Consumption	2.0 kVA typ. 2.5 kVA max. (TBD)
Inrush Current	200% max.
Environmental (Operating)	
Ambient Temperature	-40° to +50°C operating
Altitude	Up to 10,000 ft (3000 m) with standard adiabatic derating of 2°/1000 ft.
Shock and Vibration	Van shock and vibration
Mechanical	
Cooling (TWT)	Forced air with integral blower. Rear air intake and exhaust.
RF Input Connection	Type N female
RF Output Connection	Type N female
Dimensions (W x H x D)	483 x 222 x 700 mm (TBD)
Weight	40 kg (TBD)



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1.2 4-8GHz/200W

SPECIFICATIONS, MWT040080G5456AC

Electrical	
Frequency	4.0 to 8.0 GHz
Output Power	TWT 200 W min. Flange 180 W min.
Bandwidth	4.0 GHz
Gain	54 dB min. at rated power output; 56 dB typ. at small signal
RF Level Adjust	0 to 20 dB continuous
Gain Variation	12.0 dB pk-pk max.
Input VSWR	2.5:1 typ
Output VSWR	2.5:1 typ.
Load VSWR	1.5:1 max. for full spec compliance; 2.0:1 max. continuous operation;
Harmonic Content	-6 dBc typical at lower band edge
Primary Power	220-240 VAC \pm 10%, single phase, 47-63 Hz
Power Consumption	2.0 kVA typ. 2.3 kVA max. (TBD)
Inrush Current	200% max.
Environmental (Operating)	
Ambient Temperature	-40° to +50°C operating
Altitude	Up to 10,000 ft (3000 m) with standard adiabatic derating of 2°/1000 ft.
Shock and Vibration	Van shock and vibration
Mechanical	
Cooling (TWT)	Forced air with integral blower. Rear air intake and exhaust.
RF Input Connection	Type N female
RF Output Connection	Type N female
Dimensions (W x H x D)	483 x 222 x 600 mm (TBD)
Weight	40 kg (TBD)



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1.3 8-18GHz/200W

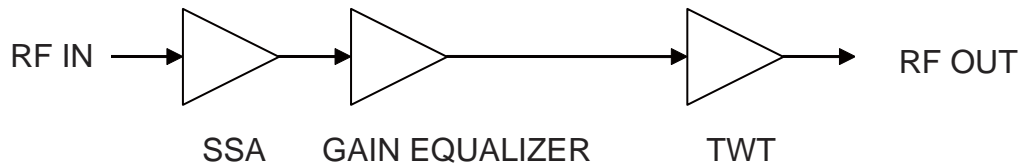
SPECIFICATIONS, MWT080180G5456AC

Electrical	
Frequency	8.0 to 18.0 GHz TWT 200 W min.
Output Power	(8-16GHz 200W min, 16-18GHz 170W min.) Flange 180 W min. (8-16GHz 180W min, 16-18GHz 150W min.)
Bandwidth	10.0 GHz
Gain	54 dB min. at rated power output; 56 dB typ. at small signal
RF Level Adjust	0 to 20 dB continuous
Gain Variation	12.0 dB pk-pk max.
Input VSWR	2.5:1 typ
Output VSWR	2.5:1 typ.
Load VSWR	1.5:1 max. for full spec compliance; 2.0:1 max. continuous operation;
Harmonic Content	-4 dBc typical at lower band edge
Primary Power	220-240 VAC \pm 10%, single phase, 47-63 Hz
Power Consumption	2.0 kVA typ. 2.3 kVA max. (TBD)
Inrush Current	200% max.
Environmental (Operating)	
Ambient Temperature	-40° to +50°C operating
Altitude	Up to 10,000 ft (3000 m) with standard adiabatic derating of 2°/1000 ft.
Shock and Vibration	Van shock and vibration
Mechanical	
Cooling (TWT)	Forced air with integral blower. Rear air intake and exhaust.
RF Input Connection	SMA female
RF Output Connection	WRD 650
Dimensions (W x H x D)	483 x 222 x 500 mm (TBD)
Weight	40 kg (TBD)

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1. Physical

2.1 RF Block Diagram



2.2 Mechanical Drawing(mm)

