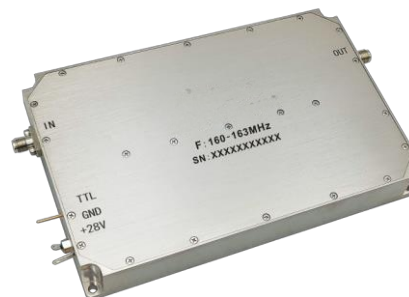


Features

- Gain: 51dB Typical
- P1dB Output Power: 45dBm Typical
- Supply Voltage: +28V @ 800mA
- 50 Ohm Matched Input / Output



Typical Applications

- Wireless Infrastructure
- 5G Communication
- Test and Measurement Instruments

RF Microwave & VSAT
Fiber Optics

Parameter	Min.	Typ.	Max.	Units
Frequency Range	160		163	MHz
Gain	49	51		dB
Gain Flatness		±0.5	±1.0	dB
Gain Variation Over Temperature(-30°C - +70°C)		±1.5	±2.5	dB
Input VSWR		1.2	1.5	:1
Output 1dB Compression Point (P1dB)	44	45		dBm
Saturated Output Power (Psat)		46		dBm
Supply Current (Vcc=+28V)		800	3500	mA
Isolation S12		-50		dB
The turn-on time (TTL High @ 2V Min: AMP Biased ON)		2		ms
The turn-off time (TTL Low @ 0.8V Max: AMP Biased OFF)		1		ms

Weight	16.7 Max.ounces	Impedance	50 ohms
Input / Output Connectors	SMA-Female	Material	Aluminum
Finish	Nickel Plated	Package Sealing	Epoxy Sealing (Standard)
			Hermetically Seal (Option with extra charge)

SALUKI TECHNOLOGIES
Power Amplifier 160MHz to163MHz
Absolute Maximum Ratings

Operating Voltage	+29V
RF Input Power (RFIN)	+5dBm

Biassing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +28V biasing

Power OFF Procedure

Step 1	Turn off +28V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

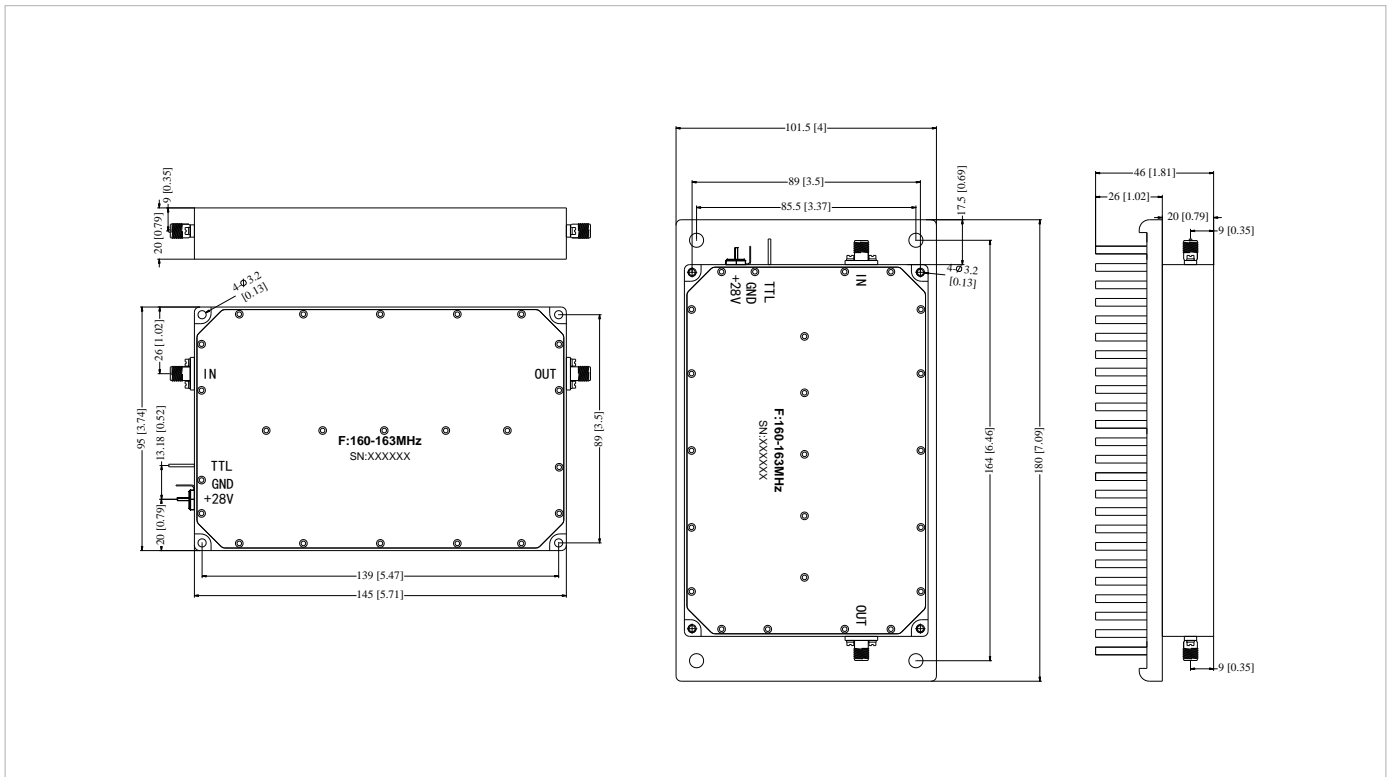
Environmental Specifications

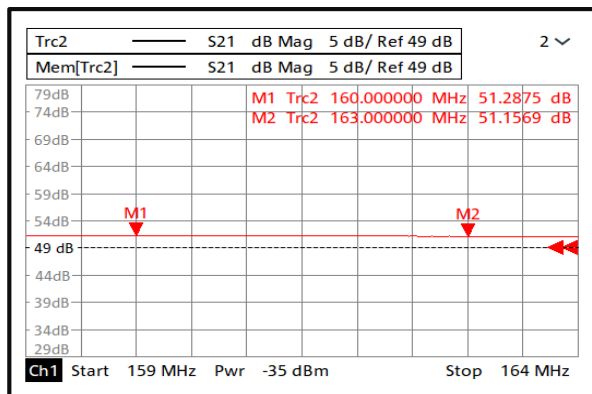
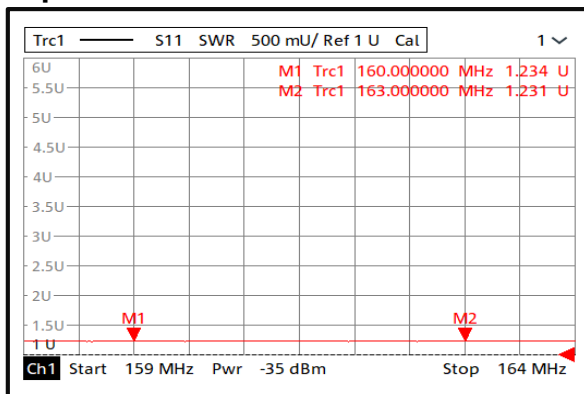
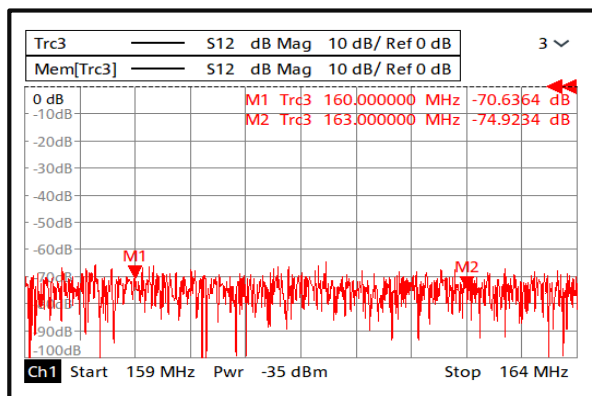
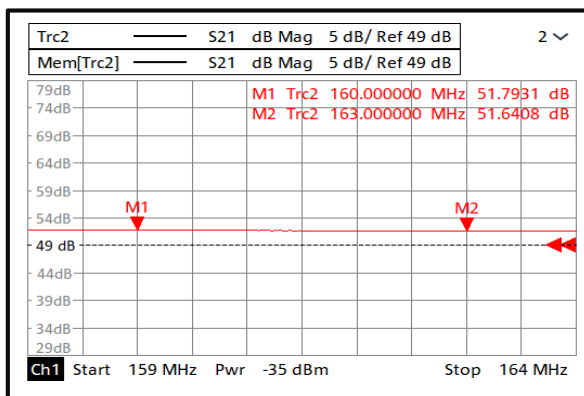
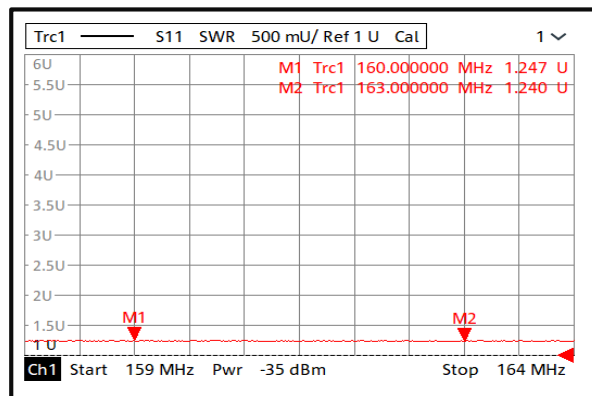
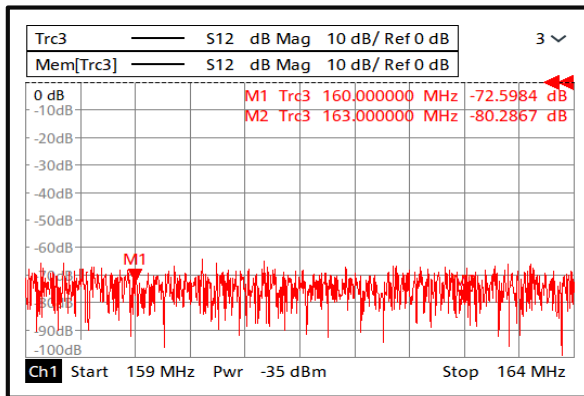
Operational Temperature	-30°C to +70°C
Storage Temperature	-50°C to +105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

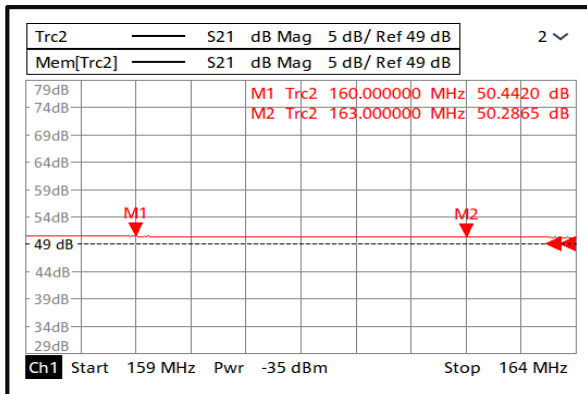
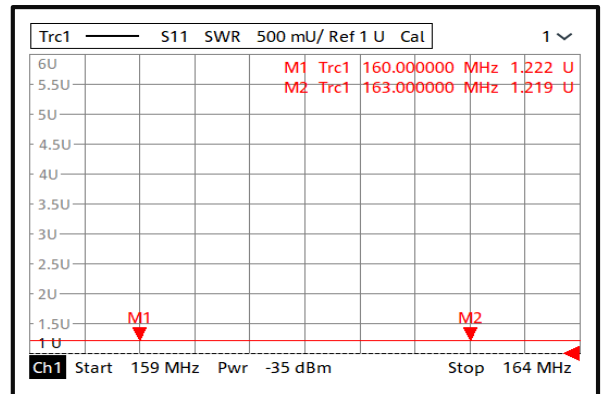
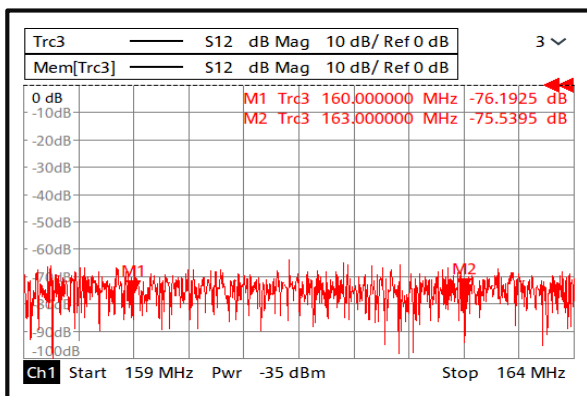
Outline Drawing:

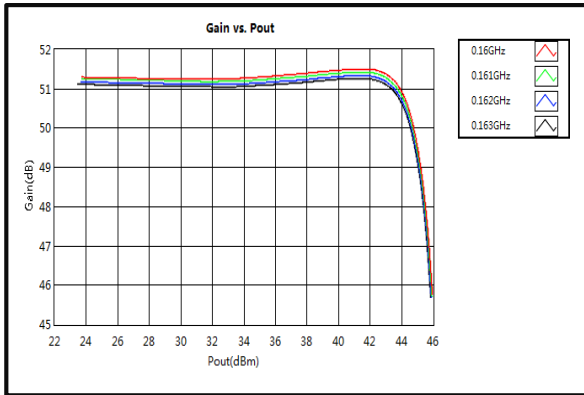
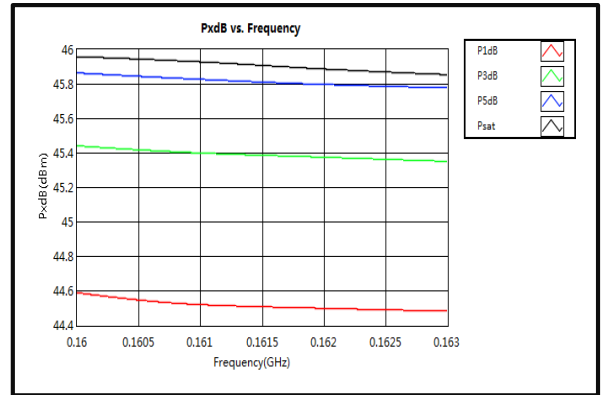
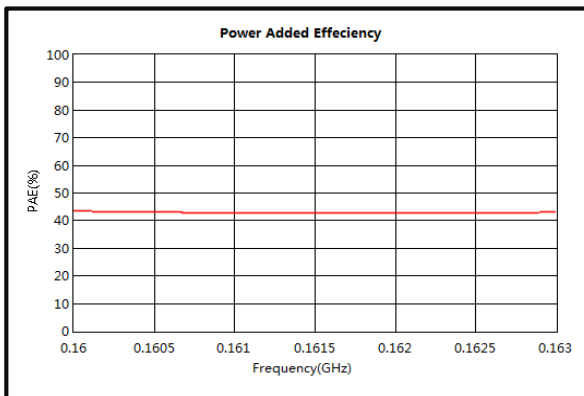
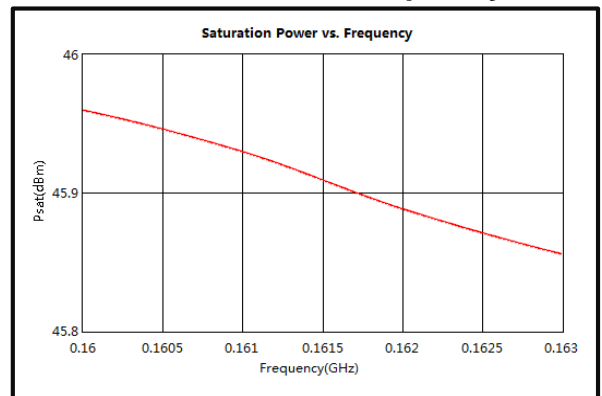
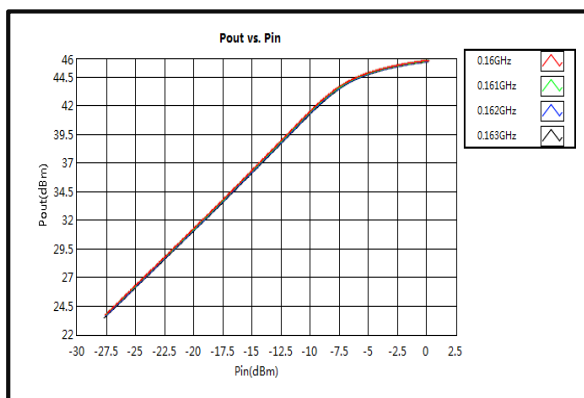
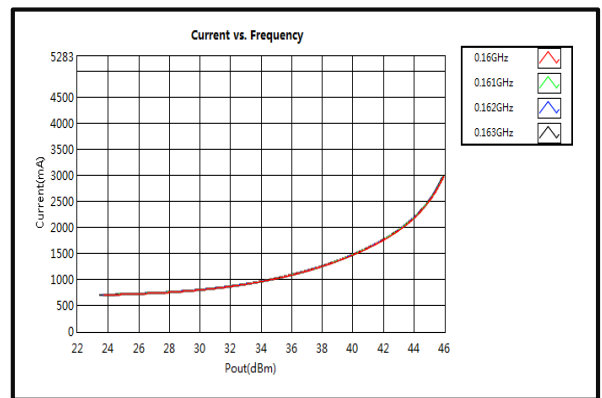
All Dimensions in mm (inches)

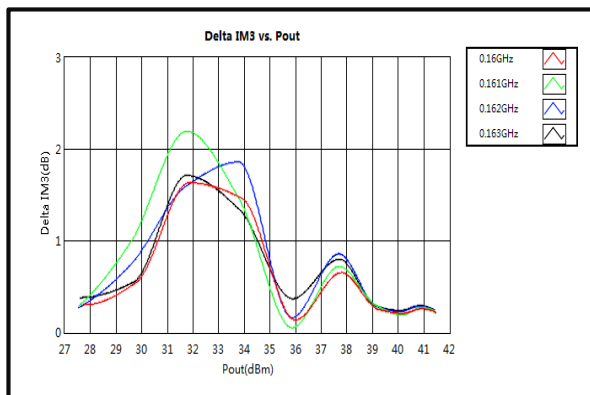
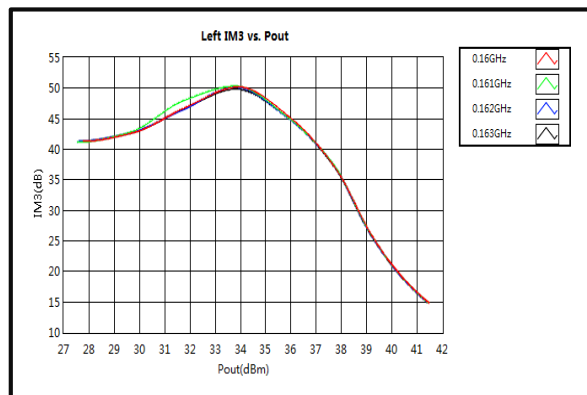
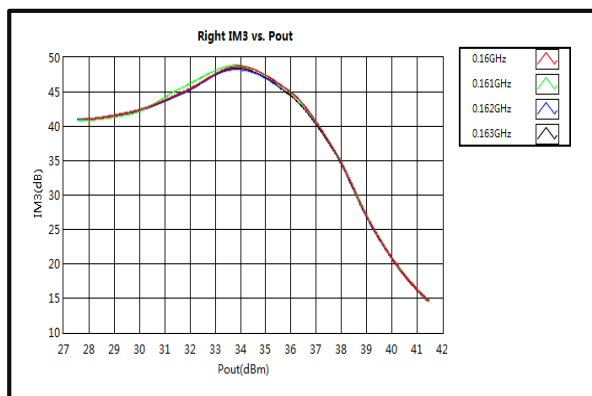
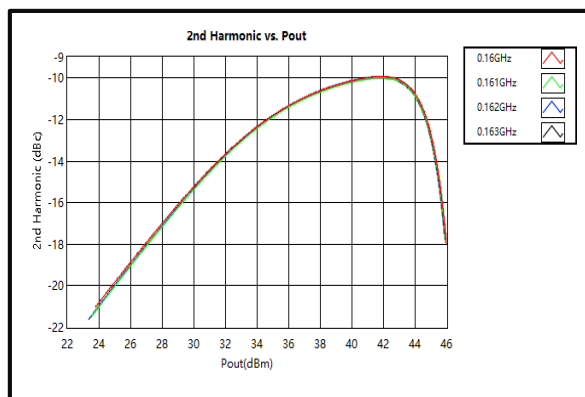
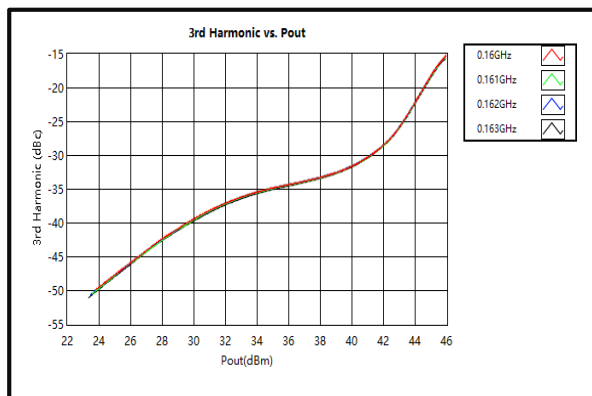
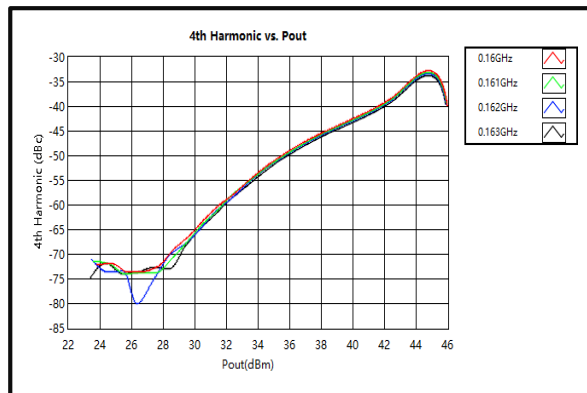
Heat Sink required during operation(Sold Separately)



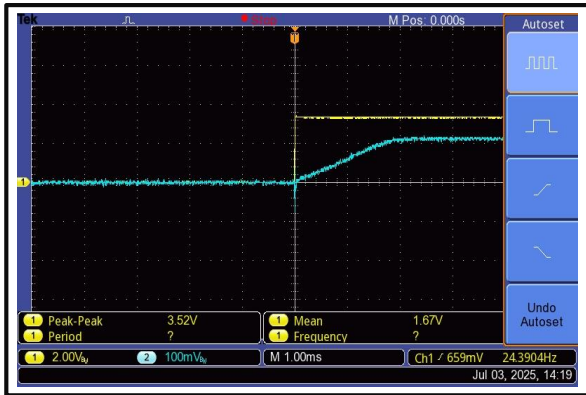
Gain@+25°C

Input VSWR @+25°C

Isolation@+25°C

Gain@-30°C

Input VSWR @-30°C

Isolation@-30°C


Gain@+70°C

Input VSWR @+70°C

Isolation@+70°C


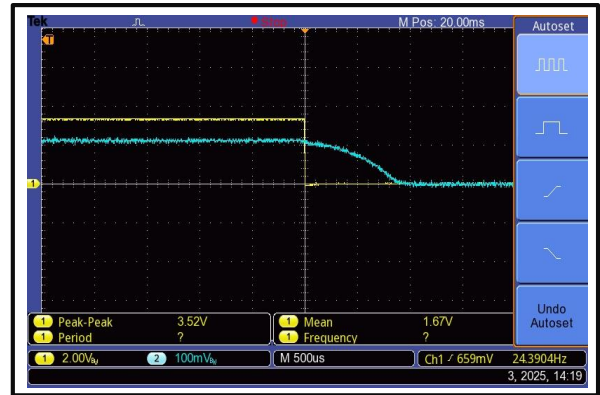
Gain vs. Output Power CW

PndB vs. Frequency CW

Power Added Efficiency CW

Saturation Power vs. Frequency CW

Pout vs. Pin CW

Current vs. Pout CW


SALUKI TECHNOLOGIES
Power Amplifier 160MHz to163MHz
Delta IM3 vs. Pout

Left IM3 vs. Pout

Right IM3 vs. Pout

2nd Harmonic Wave Output Power

3rd Harmonic Wave Output Power

4th Harmonic Wave Output Power


Speed Time



Speed Time



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