

## MHT1002NR3 Information

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### General Information

Parameter	Value
Part Number	MHT1002NR3
Description	RF Power LDMOS Transistor for Consumer and Commercial Cooking, 915 MHz, 350 W, 48 V
Material Type	Tested Packaged Device
<a href="#">Life Cycle Description (code)</a>	PRODUCT RAPID GROWTH
Status	Active
<a href="#">Application/Qualification Tier</a>	10-YEARS APPLICATION LIFE

### Package Information

Parameter	Value
Package Type and Termination Count	High Pwr RF SMT 5
Package Description and Mechanical Drawing	<a href="#">OM780-4 PLASTIC</a>
Device Weight(g)	3.06490
Package Length (nominal)(mm)	20.570
Package Width (nominal)(mm)	9.780
Package Thickness (nominal)(mm)	3.810
Tape & Reel	Yes

### Environmental and Compliance Information

Parameter	Value
<a href="#">Pb-Free</a>	
<a href="#">RoHS Compliant</a>	
<a href="#">Halogen Free</a>	Yes
<a href="#">Material Composition Declaration (MCD)</a>	<a href="#">Download MCD Report</a>  <a href="#">Download MCD Report</a> 
<a href="#">RoHS Certificate of Analysis (CoA)</a>	<a href="#">Download RoHS CoA Report</a>
<a href="#">2nd Level Interconnect</a>	e3
<a href="#">Moisture Sensitivity Level (MSL)</a>	3
<a href="#">Floor Life</a>	168 HOURS
<a href="#">Peak Package Body Temperature (PPT)(°C)</a>	260
<a href="#">Maximum Time at Peak Temperature (s)</a>	40
<a href="#">Number of Reflow Cycles</a>	3
<a href="#">REACH SVHC</a>	<a href="#">NXP REACH Statement</a>
<a href="#">UL94 (plastics flammability test)</a>	V0; Burning stops within 10 seconds on a vertical specimen; no drips allowed

### Manufacturing Information

Parameter	Value
<a href="#">Micron Size(μm)</a>	.25

### Ordering Information

Parameter	Value
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Minimum Package Quantity (MPQ)	250
MPQ Container	REEL
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	250
POQ Container	REEL
Export Control Classification Number (US)	EAR99
Harmonized Tariff (US) <a href="#">Disclaimer</a>	8541.29.0075
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
<a href="#">Budgetary Price excluding tax(US\$)</a>	-
<a href="#">Change Currency</a>	-
Order	

## Operating Characteristics

Parameter	Value
Class	AB
Die Technology	LDMOS
Efficiency (Typ) (%)	66.9
Frequency Band (Min-Max) (MHz)	915 to 915
Frequency Max (Max) (MHz)	915
Frequency Min (Min) (MHz)	915
Matching	Input
Output Power (Typ) (W) @ Intermodulation Level at Test Signal	350 @ CW
P1dB (Typ) (dBm)	55.9
P1dB (Typ) (W)	387
P3dB (Typ) (W)	443
Power Gain (Typ) (dB) @ f (MHz)	20.7 @ 915
Sample Exception Availability	N
Supply Voltage (Typ) (V)	48
Test Signal	CW
Thermal Resistance (Spec) (°C/W)	0.24

## Reliability Data Lookup