

PH3135-5S Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	PH3135-5S-DG
Manufacturer	MACOM Technology Solutions
Manufacturer Product Number	PH3135-5S
Description	RF TRANS NPN 60V
Detailed Description	RF Transistor NPN 60V 750mA 5W

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PH3135-5S	MACOM Technology Solutions
Series:	Product Status:
	Active
Transistor Type:	Voltage - Collector Emitter Breakdown (Max):
NPN	60V
Frequency - Transition:	Noise Figure (dB Typ @ f):
Gain:	Power - Max:
8.5dB	5W
DC Current Gain (hFE) (Min) @ lc, Vce:	Current - Collector (Ic) (Max):
	750mA
Operating Temperature:	Mounting Type:
200°C (TJ)	
Package / Case:	Supplier Device Package:
-	
Base Product Number:	
PH3135	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
ECCN:	HTSUS:
EAR99	8541.29.0095

PH3135-5S



M/A-COM Products

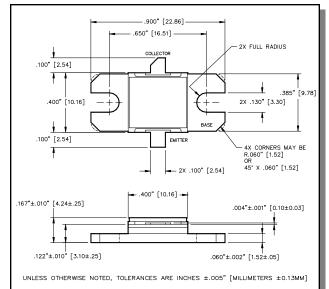
Released, 10 Aug 07

Radar Pulsed Power Transistor 5W, 3.1-3.5 GHz, 2µs Pulse, 10% Duty

Features

- NPN silicon microwave power transistors •
- Common base configuration
- Broadband Class C operation •
- High efficiency inter-digitized geometry •
- Diffused emitter ballasting resistors •
- Gold metallization system •
- Internal input and output impedance matching
- Hermetic metal/ceramic package
- **RoHS** compliant

Outline Drawing



Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Collector-Emitter Voltage	V _{CES}	60	V
Emitter-Base Voltage	V _{EBO}	3.0	V
Collector Current (Peak)	Ι _C	0.75	А
Power Dissipation @ +25°C	P _{TOT}	60	W
Storage Temperature	T _{STG}	-65 to +200	°C
Junction Temperature	TJ	200	°C

Electrical Specifications: T_c = 25 ± 5°C (Room Ambient)

Parameter	Test Conditions	Frequency	Symbol	Min	Max	Units
Collector-Emitter Breakdown Voltage	I _C = 10mA		BV _{CES}	60	-	V
Collector-Emitter Leakage Current	$V_{CE} = 40V$		I _{CES}	-	1.0	mA
Thermal Resistance	Vcc = 33V, Pin = 0.7W	F = 3.1, 3.3, 3.5 GHz	R _{TH(JC)}	-	3.5	°C/W
Output Power	Vcc = 33V, Pin = 0.7W	F = 3.1, 3.3, 3.5 GHz	P _{OUT}	5.0	-	W
Power Gain	Vcc = 33V, Pin = 0.7W	F = 3.1, 3.3, 3.5 GHz	G _P	8.5	-	dB
Collector Efficiency	Vcc = 33V, Pin = 0.7W	F = 3.1, 3.3, 3.5 GHz	η _c	30	-	%
Input Return Loss	Vcc = 33V, Pin = 0.7W	F = 3.1, 3.3, 3.5 GHz	RL	-	-6	dB
Load Mismatch Tolerance	Vcc = 33V, Pin = 0.7W	F = 3.1, 3.3, 3.5 GHz	VSWR-T	-	2:1	-

1

- ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology
- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 Visit www.macomtech.com for additional data sheets and product information.

Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

PH3135-5S

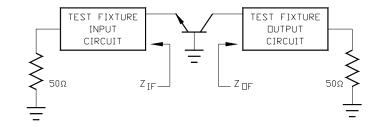


Radar Pulsed Power Transistor 5W, 3.1-3.5 GHz, 2µs Pulse, 10% Duty

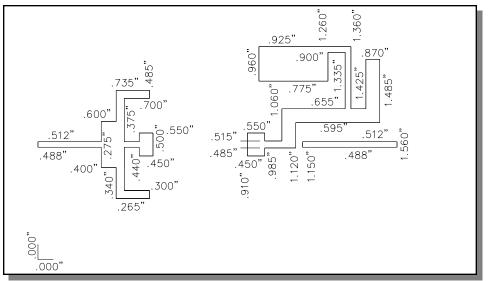
M/A-COM Products Released, 10 Aug 07

RF Test Fixture Impedance

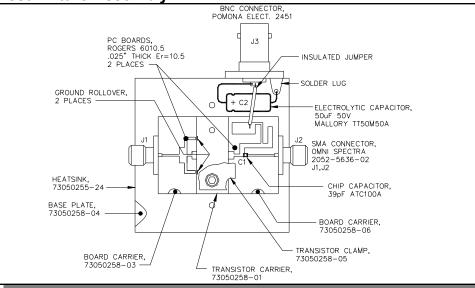
F (GHz)	Z _{IF} (Ω)	Z _{OF} (Ω)
3.1	24 - j4.4	24 - j20
3.3	20 - j0.7	18 - j11
3.5	17 + j3.9	15 - j3.0



Test Fixture Circuit Dimensions



Test Fixture Assembly



2

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. **PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298
- Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

	<section-header></section-header>		
Marginary Marginary Marginary	Market	Marchine Marchine Image: Control of the sector of the sec	





Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.