

NPN Silicon Bipolar Transistors

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Package	Frequency (GHz)	Vce (V)	NF ₀ (dB)	G _a (dB)	P1dB (dBm)	G1dB (dBm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
								1	10	100			
SOT-23	0.9	2.7	1.0	12.5	13.0	15.0	516-1566-1-ND◆	.67	5.04	39.60	516-1566-2-ND◆	222.00/M	AT-32033-TR1G
	0.9	5.0	1.0	14.5	14.5	14.5	516-1505-1-ND	.39	3.25	26.00	—	—	AT-41533-TR1
	0.9	5.0	1.0	14.5	14.5	14.5	516-1570-1-ND◆	.73	5.46	42.90	516-1570-2-ND◆	240.50/M	AT-41533-TR1G
SOT-143	0.9	2.7	1.0	14.0	13.0	16.5	516-1499-1-ND	.39	3.25	26.00	—	—	AT-32011-TR1
	0.9	2.7	1.0	14.0	13.0	16.5	516-1564-1-ND◆	.73	5.46	42.90	516-1564-2-ND◆	240.50/M	AT-32011-TR1G
	0.9	5.0	1.0	15.5	14.5	17.5	516-1503-1-ND	.39	3.25	26.00	—	—	AT-41511-TR1
	0.9	5.0	1.0	15.5	14.5	17.5	516-1568-1-ND◆	.73	5.46	42.90	516-1568-2-ND◆	240.50/M	AT-41511-TR1G
SOT-323	0.9	2.7	1.0	15.0	13.0	15.5	516-1500-1-ND	.39	3.25	26.00	—	—	AT-32032-TR1
	0.9	2.7	1.0	15.0	13.0	15.5	516-1565-1-ND◆	.73	5.46	42.90	516-1565-2-ND◆	240.50/M	AT-32032-TR1G
	0.9	5.0	1.0	15.5	14.5	14.5	516-1504-1-ND	.45	3.75	30.00	—	—	AT-41532-TR1
	0.9	5.0	1.0	15.5	14.5	14.5	516-1569-1-ND◆	.68	5.25	45.00	516-1569-2-ND◆	270.00/M	AT-41532-TR1G
SOT-363	0.9	2.7	1.1	14.5	12.0	16.0	516-1502-1-ND	.51	4.25	34.00	—	—	AT-32063-TR1
	0.9	2.7	1.1	14.5	12.0	16.0	516-1567-1-ND◆	.77	5.95	51.00	516-1567-2-ND◆	306.00/M	AT-32063-TR1G

◆ RoHS Compliant

HEMTs

Package	Gate Width (µm)	Frequency Range (GHz)	Test Frequency (GHz)	Vdd (V)	Idd (mA)	NF ₀ (dB)	G _a (dB)	OIP3 (dBm)	P1dB (dBm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing 3,000	Avago Part No.
											1	10	100		
SOT-343	800	0.45 – 6	1.9	4.0	60	0.5	17.5	31.5	20.0	516-1571-1-ND◆	3.51	29.25	234.00	—	ATF-34143-TR1G
	800	0.45 – 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1572-1-ND◆	4.94	43.71	338.40	2044.50/M	ATF-54143-TR1G
	400	0.45 – 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1573-1-ND◆	1.88	16.50	140.00	800.00/M	ATF-55143-TR1G
MiniPak	400	0.45 – 10	2.0	2.7	10	0.5	17.5	24.1	14.6	516-1509-1-ND	1.88	16.50	140.00	800.00/M	ATF-551M4-TR1

◆ RoHS Compliant ‡ For Tape and Reel part number, change 1-ND to 2-ND

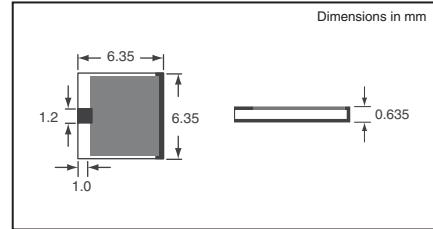


CHF2525CNT Series
9GHz 40 Watt Termination Chips



Features: • DC to 9GHz • Low VSWR • Aluminum Nitride ceramic • Terminal for lead attachment
Specifications: • Substrate: ALN • Resistive Film: Thick Film • Tolerance: ±5%
Absolute Ratings: • Power: 40W • Frequency: 9GHz • VSWR: 1.2 Maximum
Applications: • Isolators • RF amplifiers

Resistance Ω	Terminals	Digi-Key Part No.	Price Each			Bourns Part No.
			1	10	50	
50	NiAu	CHF2525CNT500LX-ND	6.88	6.25	5.38	CHF2525CNT500LX
50	NiSn	CHF2525CNT500LW-ND	6.88	6.25	5.38	CHF2525CNT500LW

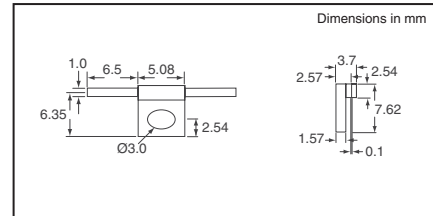


CHF3020CBF Series
10 Watt Power RF Terminations/Resistors



Features: • DC to 4GHz • Flanged model • Low VSWR
Specifications: • Substrate: Beo • Resistive Film: Thick Film • Tab: Ag • Cover Substrate: AL203 • Mounting Flange: Copper plated with Nickel
• Tolerance: ±5%
Absolute Ratings: • Power: 10W • Frequency: 4.0GHz • VSWR: 1.35 Maximum • Capacitance: 0.8pF
Applications: • High power RF transmission

Resistance Ω	Function	Digi-Key Part No.	Price Each			Bourns Part No.
			1	10	50	
50	Termination	CHF3020CBF500L-ND	17.33	15.75	13.55	CHF3020CBF500L
100	Resistor	CHF3020CBF101R-ND	17.33	15.75	13.55	CHF3020CBF101R

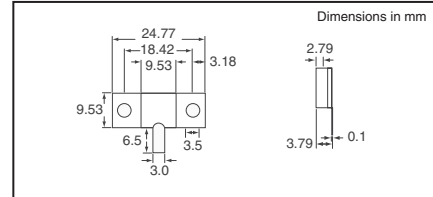


CHF9838CNF Series
250 Watt Power RF Flanged Chip Termination



Features: • DC to 2.2GHz • Flanged model • Low VSWR • Aluminum Nitride ceramic
Specifications: • Substrate: ALN • Resistive Film: Thick Film • Tab: Ag • Tab Attachment: Brazed with epoxy encapsulation • Mounting Flange: Copper plated with Nickel • Tolerance: ±5%
Absolute Ratings: • Power: 250W • Frequency: 2.2GHz • VSWR: 1.10 Maximum
Applications: • High power RF transmission

Resistance Ω	Function	Digi-Key Part No.	Price Each			Bourns Part No.
			1	10	50	
50	Termination	CHF9838CNF500L-ND	27.50	25.00	21.50	CHF9838CNF500L



C-MAX® Antennas
RF Technology Specialist



Application	Number of Turns	Inductance	Unloaded Q (Min.)	Digi-Key Part No.	Price Each			C-Max Part No.
					1	10	100	
Watch	228	985H	55	561-1002-ND	2.52	2.37	1.58	CMA-60-19
	203	985H	50	561-1003-ND	2.55	2.36	1.57	CMA-60-24
Table Clock	147	1.5mH	120	561-1004-ND	1.86	1.76	1.35	CMA-60-60
	139	1.5mH	110	561-1001-ND	2.04	1.87	1.40	CMA-60-100
Watch	188	2.33mH	100	561-1019-ND	1.98	1.85	1.32	CMA-MF-60

Test Equipment

Description	Digi-Key Part No.	Price Each	C-Max Part No.
Time Signal Generator for UTC	561-1018-ND	550.00	TSG100
Loop Antenna for TSG400/800, 5-10 Meters	561-1000-ND	395.00	1LA
Level Interface for TSG800/400 to custom application. Provides Time signal connection	561-1009-ND	179.00	DAT100
Time Signal Generator for UTC Application Development	561-1011-ND	8199.98	TSG800
GPS Receiver device for use with TSG equipment for UTC reception anywhere	561-1010-ND	400.00	GPS100

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com