



Introduction

Terminations are intended to terminate a coaxial transmission in its characteristic impedance. It dissipates the whole R.F. incident power. Heat transfer is done by conduction or convection cooling.

Terminations are applied in Test & Measurement, defense, telecommunication, space and Thermal vacuum applications.

FEATURES

- Broadband
- Low, Medium and High power
- Low VSWR

BENEFITS

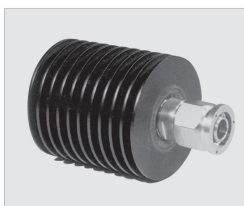
- Connector interface according to applicable MIL, DIN, NF and CEI
- High repeatability

LOW POWER TERMINATIONS



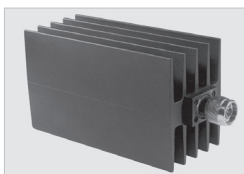
Power	0.5 to 3 Watts
Connectors	BMA, BNC, QMA, QN, N, SMA, SMA 2.9, SMB, SMP, SSMA, TNC, 1.0/2.3
Frequency range	DC to 40 GHz

MEDIUM POWER TERMINATIONS



Power	6 to 30 Watts
Connectors	BNC, N, SMA, TNC, 7/16
Frequency range	DC to 18 GHz

HIGH POWER TERMINATIONS



Power	50 to 1000 Watts
Connectors	N, SMA, TNC, 7/16
Frequency range	DC to 6 GHz

TERMINATIONS FOR SPACE / THERMAL VACUUM APPLICATIONS



Power	1 to 45 Watts
Connectors	SMA, SMA 2.9, SMP, TNC
Frequency range	DC to 40 GHz

Terminations for Space / thermal vacuum applications are not detailed in this document. Please consult us.



Our Most Important Connection is with You.™

TERMINATIONS

Low power terminations, up to 3 watts

1.0/2.3 - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
2.5	1.15	23.1	1	100	50±5%	Male	R404 144 000

7/16 - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
4	1.15	23.1	2	500	50±5%	Male	R404 170 111
4	1.15	23.1	2	500	50±5%	Female	R404 175 111

BMA - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
18	1.2	20.8	1	100	50±5%	Male	R404 270 000
18	1.3	17.7	1	100	50±5%	Female	R404 275 000

BNC - 50 AND 75 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
1	-	-	1	500	50±1%	Male	R404 441 000 ⁽³⁾
1	-	-	1	500	50±1%	Male	R404 441 120 ^{(1) (3)}
1	-	-	1	500	50±1%	Male	R404 441 121 ^{(2) (3)}
4	1.2	20.8	1	100	50±2%	Male	R404 111 000
4	1.2	20.8	1	100	50±2%	Male	R404 111 120 ⁽¹⁾
4	1.2	20.8	1	100	50±2%	Female	R404 112 000
8	1.25	19.1	1	1,000	50±5%	Male	R404 110 000
8	1.25	19.1	1	1,000	50±5%	Male	R404 110 120 ⁽¹⁾
1	1.15	23.1	1	500	75±5%	Male	R404 012 000
1	1.15	23.1	1	500	75±5%	Male	R404 012 120
1	1.15	23.1	1	500	75±5%	Female	R404 014 000
1	-	-	1	500	75±0.1%	Male	R404 4120 00 ⁽³⁾
1	-	-	1	500	75±1%	Male	R404 442 000 ⁽³⁾
1	-	-	1	500	75±1%	Male	R404 442 120 ^{(1) (3)}

(1) with bead chain, (2) with cord, (3) resistive pad

N - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
4	1.2	20.8	1	500	50±2%	Male	R404 131 000
4	1.2	20.8	1	500	50±2%	Male	R404 131 120 ⁽¹⁾
4	1.2	20.8	1	500	50±2%	Female	R404 132 000
12.4	1.15	23.1	1	500	50±2%	Male	R404 240 000
12.4	1.15	23.1	1	500	50±2%	Male	R404 240 120 ⁽¹⁾
12.4	1.15	23.1	1	500	50±2%	Male	R404 240 121 ⁽²⁾
12.4	1.15	23.1	1	500	50±2%	Female	R404 245 000
18	1.2	20.8	2	100	50±2%	Male	R404 340 000
18	1.2	20.8	2	100	50±2%	Male	R404 340 120 ⁽¹⁾
18	1.2	20.8	2	100	50±2%	Female	R404 355 000

(1) with bead chain, (2) with cord

QMA - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
3	1.1	26.4	2	200	50±5%	Male	R404 114 111
4	1.2	20.8	1	100	50±5%	Male	R404 114 000
4	1.2	20.8	1	100	50±5%	Male	R404 114 120 ⁽¹⁾

(1) with bead chain



Low power terminations, up to 3 watts

QN - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
4	1.2	20.8	1	100	50±5%	Male	R404 116 000

SMA - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
4	1.2	20.8	1	100	50±5%	Male	R404 101 000
4	1.2	20.8	1	100	50±5%	Male	R404 101 120 ⁽¹⁾
4	1.25	19.1	1	100	50±5%	Female	R404 102 000
8	1.15	23.1	3	250	50±5%	Male	R404 600 000
18	1.2	20.8	2	100	50±5%	Male	R404 A01 000
18	1.2	20.8	2	100	50±5%	Male	R404 A01 120 ⁽¹⁾
18	1.2	20.8	2	100	50±5%	Male	R404 A01 121 ⁽²⁾
18	1.2	20.8	2	100	50±5%	Female	R404 A02 000
18	1.34	16.8	3	250	50±5%	Male	R404 605 000
26.5	1.3	17.7	2	100	50±5%	Male	R404 A03 000
26.5	1.3	17.7	2	100	50±5%	Female	R404 A04 000

(1) with bead chain, (2) with cord

SMA2.9 - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
40	1.35	16.5	1	100	50±5%	Male	R404 280 000
40	1.35	16.5	1	100	50±5%	Female	R404 285 000

SMB - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
4	1.2	20.8	1	100	50±5%	Male	R404 104 000
4	1.2	20.8	1	100	50±5%	Female	R404 105 000
8	1.25	19.1	0.5	100	50±5%	Female	R404 155 000 ⁽²⁾
8	1.25	19.1	0.5	100	50±5%	Female	R404 165 000

(2) with cord

SMC - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
8	1.25	19.1	0.5	100	50±5%	Female	R404 160 000

SMP - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
26.5	1.3	17.7	1	100	50±5%	Male	R404 A61 000
26.5	1.3	17.7	1	100	50±5%	Female	R404 A62 000
40	1.7	11.7	0.5	100	50±5%	Male	R404 260 000
40	1.7	11.7	0.5	100	50±5%	Female	R404 262 000

SSMA - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
18	1.35	16.5	0.5	100	50±5%	Male	R404 380 000



Our Most Important Connection is with You.™

TERMINATIONS

Low power terminations, up to 3 watts

TNC - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
4	1.2	20.8	1	100	50±2%	Male	R404 121 000
4	1.2	20.8	1	100	50±2%	Male	R404 121 120 ⁽¹⁾
4	1.2	20.8	1	100	50±2%	Female	R404 122 000
12.4	1.25	19.1	1	500	50±5%	Male	R404 225 000
12.4	1.25	19.1	1	500	50±5%	Male	R404 225 120 ⁽¹⁾
18	1.2	20.8	2	100	50±5%	Male	R404 370 000
18	1.2	20.8	2	100	50±5%	Male	R404 370 120 ⁽¹⁾
18	1.2	20.8	2	100	50±5%	Female	R404 375 000

[1] with bead chain

Medium power terminations, up to 30 watts

7/16 - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
2	1.2	20.8	25	5,000	50±5%	Male	R404 836 118
4	1.2	20.8	12	4,000	50±5%	Male	R404 564 000

BNC - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
2	1.1	26.4	6	4,000	50±5%	Male	R404 505 000
2	1.1	26.4	12	4,000	50±5%	Male	R404 555 000
8	1.25	19.1	6	4,000	50±5%	Male	R404 510 000
8	1.25	19.1	12	4,000	50±5%	Male	R404 560 000

N - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
2	1.1	26.4	6	4,000	50±5%	Male	R404 507 000
2	1.1	26.4	12	4,000	50±5%	Male	R404 557 000
6	1.3	17.7	30	2,000	50±5%	Male	R404 750 000
6	1.3	17.7	30	2,000	50±5%	Female	R404 751 000
12.4	1.3	17.7	6	4,000	50±5%	Male	R404 517 000
12.4	1.3	17.7	12	4,000	50±5%	Male	R404 567 000
12.4	1.25	19.1	20	300	50±5%	Male	R404 587 000
12.4	1.25	19.1	20	300	50±5%	Female	R404 587 500
18	1.3	17.7	6	300	50±5%	Male	R404 522 000
18	1.3	17.7	12	300	50±5%	Male	R404 572 000
18	1.35	16.5	20	300	50±5%	Male	R404 588 000
18	1.35	16.5	20	300	50±5%	Female	R404 588 500

SMA - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
6	1.3	17.7	30	2,000	50±5%	Male	R404 754 000
6	1.3	17.7	30	2,000	50±5%	Female	R404 755 000
12.4	1.3	17.7	6	4,000	50±5%	Male	R404 518 000
12.4	1.3	17.7	12	4,000	50±5%	Male	R404 568 000
12.4	1.25	19.1	20	300	50±5%	Male	R404 584 000
12.4	1.25	19.1	20	300	50±5%	Female	R404 584 500
18	1.3	17.7	6	300	50±5%	Male	R404 523 000
18	1.3	17.7	12	300	50±5%	Male	R404 573 000
18	1.35	16.5	20	300	50±5%	Male	R404 589 000
18	1.35	16.5	20	300	50±5%	Female	R404 589 500



Medium power terminations, up to 30 watts

TNC - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number
			Avg. (W)	Peak (W)			
2	1.1	26.4	6	4,000	50±5%	Male	R404 506 000
2	1.1	26.4	12	4,000	50±5%	Male	R404 556 000
6	1.3	17.7	30	2,000	50±5%	Male	R404 752 000
6	1.3	17.7	30	2,000	50±5%	Female	R404 753 000
12.4	1.3	17.7	6	4,000	50±5%	Male	R404 516 000
12.4	1.3	17.7	12	4,000	50±5%	Male	R404 566 000
12.4	1.25	19.1	20	300	50±5%	Male	R404 585 000
12.4	1.25	19.1	20	300	50±5%	Female	R404 585 500
18	1.3	17.7	12	300	50±5%	Male	R404 571 000
18	1.35	16.5	20	300	50±5%	Male	R404 586 000
18	1.35	16.5	20	300	50±5%	Female	R404 586 500

High power terminations, up to 1000 watts

7/16 - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
1	1.1	26.4	1000	40,000	50±5%	Female	R404 867 000	15,000
2.5	1.3	17.7	600	40,000	50±5%	Female	R404 865 000	8,200
6	1.3	17.7	50	200	50±5%	Male	R404 766 000	260
6	1.3	17.7	50	200	50±5%	Female	R404 767 000	250
6	1.3	17.7	100	200	50±5%	Male	R404 776 000	1,300
6	1.3	17.7	100	200	50±5%	Female	R404 777 000	1,300
6	1.3	17.7	150	2,000	50±5%	Male	R404 786 000	1,500
6	1.3	17.7	150	2,000	50±5%	Female	R404 787 000	1,500
6	1.3	17.7	200	2,000	50±5%	Male	R404 786 020	2,000
6	1.3	17.7	200	2,000	50±5%	Female	R404 787 020	2,000

7/16 - 50 OHMS CONDUCTION COOLING

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
6	1.3	17.7	200	2,000	50±5%	Male	R404 786 120	140
6	1.3	17.7	200	2,000	50±5%	Female	R404 787 120	140

N - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
2.5	1.3	17.7	400	40,000	50±5%	Female	R404 863 000	4,200
6	1.3	17.7	50	2,000	50±5%	Male	R404 760 000	210
6	1.3	17.7	50	2,000	50±5%	Female	R404 761 000	200
6	1.3	17.7	100	2,000	50±5%	Male	R404 770 000	1,200
6	1.3	17.7	100	2,000	50±5%	Female	R404771000	1,200
6	1.3	17.7	150	2,000	50±5%	Male	R404780000	1,500
6	1.3	17.7	150	2,000	50±5%	Female	R404781000	1,500
6	1.3	17.7	200	2,000	50±5%	Male	R404780020	2,000
6	1.3	17.7	200	2,000	50±5%	Female	R404781020	2,000
6	1.2	20.8	250		50±5%	Female	R404861000	3,000

N - 50 OHMS CONDUCTION COOLING

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
6	1.3	17.7	200	2,000	50±5%	Male	R404 780 120	140
6	1.3	17.7	200	2,000	50±5%	Female	R404 781 120	140



Our Most Important Connection is with You.™

High power terminations, up to 1000 watts

SMA - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
6	1.3	17.7	50	200	50±5%	Male	R404 764 000	200
6	1.3	17.7	50	200	50±5%	Female	R404 765 000	200
6	1.3	17.7	100	200	50±5%	Male	R404 774 000	1,200
6	1.3	17.7	100	200	50±5%	Female	R404 775 000	1,200

TNC - 50 OHMS

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
6	1.3	17.7	50	200	50±5%	Male	R404 762 000	200
6	1.3	17.7	50	200	50±5%	Female	R404 763 000	200
6	1.3	17.7	100	200	50±5%	Male	R404 772 000	1,200
6	1.3	17.7	100	200	50±5%	Female	R404 773 000	1,200
6	1.3	17.7	150	2,000	50±5%	Male	R404 782 000	1,500
6	1.3	17.7	150	2,000	50±5%	Female	R404 783 000	1,500
6	1.3	17.7	200	2,000	50±5%	Male	R404 782 020	1,900
6	1.3	17.7	200	2,000	50±5%	Female	R404 783 020	1,900

TNC - 50 OHMS CONDUCTION COOLING

Frequency DC to (GHz)	VSWR max.	Return loss min. (dB)	Power rating (W)		Impedance (Ω)	Gender	Part Number	Weight (g)
			Avg. (W)	Peak (W)				
6	1.3	17.7	200	2,000	50±5%	Male	R404 782 120	140
6	1.3	17.7	200	2,000	50±5%	Female	R404 783 120	140