Components

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TERMINATIONS LOADS

RF Terminations or loads are components that are used to absorb energy and prevent RF signals from reflecting back from an open-ended or unused port. The ports are usually terminated with a load that has the same characteristic impedance as the transmission line.

Any multi-port RF system, whose ports are not all being used should be terminated so that any signal incident on these ports will be absorbed. If a port is left un-terminated, then the signals can reflect back into the system which can introduce distortions and other undesirable effects. These are used in couplers, hybrids, isolators, test equipment and in systems where a port needs to be terminated. There are three main types of RF terminations: coaxial, waveguide, and chip. Coaxial terminations terminate coaxial ports, and waveguide terminations terminate waveguide ports.

Product specifications subject to change without notification. Full specifications can be found at www.hasco-inc.com

COAXIAL TERMINATIONS

ΡΗΟΤΟ(S)	TYPE PART #	FREQUENCY RANGE	MAX. VSWR	POWER	FLANGE MATERIAL
	1.85mm • HT65M (Male) • HT65F (Female)	DC to 65 GHz	1.45:1	1.0 WATTS	Housing: Passivated Stainless SteelContact: Gold Plated BeCuDielectric: PTFE
and allow	2.4mm • HT50M (Male) • HT50F (Female)	DC to 50 GHz	1.45:1	1.0 WATTS	Housing: Passivated Stainless SteelContact: Gold Plated BeCuDielectric: High Temperature Plastic Bead
Con Chart	2.9mm • HT40M (Male) • HT40F (Female)	DC to 40 GHz	1.25:1	1.0 WATTS	Housing: Passivated Stainless SteelContact: Gold Plated BeCuDielectric: High Temperature Plastic Bead
S	2.9mm • HT40F-1 (Female)	DC to 40 GHz	1.25:1	1.0 WATTS	Housing: Passivated Stainless SteelContact: Gold Plated BeCuDielectric: PEI, Natural
HIAMAS CO	2.9mm • HT40M-2 (Male)	DC to 40 GHz	1.25:1	2.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: High Temperature Plastic Bead
	3.5mm • HT35M-1 (Male)	DC to 34.5 GHz	1.15:1	1.0 WATTS	Housing: Passivated Stainless SteelContact: Gold Plated BeCuDielectric: Silicone
30	N • 221-34-50-001 (Female)	DC to 18 GHz	1.43:1	2.0 WATTS	 Housing: Tri-Metal over Brass Contact: Gold Plated BeCu Dielectric: PTFE
	N • 231-34-50-001 (Male) Knurled Head	DC to 18 GHz	1.43:1	2.0 WATTS	 Housing: Ternary Alloy Plated Brass Contact: Gold Plated Brass Dielectric: PTFE
	N • 231-34-50-002 (Male) Hex Head	DC to 18 GHz	1.43:1	2.0 WATTS	 Housing: Ternary Alloy Plated Brass Contact: Gold Plated Brass Dielectric: PTFE
S.	N • HT18NM-10 (Male)	DC to 18 GHz	1.05:1	10.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE Heat Sink: Black Annodized Aluminum
	N • HT18NM-25 (Male)	DC to 18 GHz	1.40:1	25.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE Heat Sink: Black Annodized Aluminum
	N • HT4NM-100 (Male)	DC to 4 GHz	1.25:1	100.0 WATT	 Housing: Albaloy Plated Brass Contact: Silver Plated Phosphor Bronze Dielectric: PTFE Heat Sink: Black Annodized Aluminum
	TNC • HT4310M-2 (Male)	DC to 4 GHz	1.25:1	2.0 WATT	Housing: BrassContact: BrassDielectric: PSeries Resin
Set of	TNC • HT4310M-5 (Male)	DC to 8.5 GHz	1.25:1	5.0 WATT	 Housing: Albaloy Plated Brass Contact: Silver Plated Phosphor Bronze Dielectric: PTFE Heat Sink: Black Anodized Aluminum
	TNC • HT4310M-10 (Male)	DC to 8.5 GHz	1.25:1	10.0 WATT	 Housing: Albaloy/Al Plated Brass Contact: Silver Plated Phosphor Bronze Dielectric: PTFE Heat Sink: Black Anodized Aluminum
OT -	TNC • HT4310M-25 (Male)	DC to 7 GHz	1.25:1	25.0 WATT	 Housing: Albaloy/Al Plated Brass Contact: Silver Plated Phosphor Bronze Dielectric: PTFE Heat Sink: Black Anodized Aluminum

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COAXIAL TERMINATIONS

PHOTO(S)	TYPE PART #	FREQUENCY RANGE	MAX. VSWR	POWER	FLANGE MATERIAL
	SMA HT20M (Male) HT20M-1C (with Chain) 	DC to 20 GHz	1.22:1	1.0 WATTS	 Housing: Gold Plated Brass Hex Nut: Ternary Alloy Plated Brass Contact: Gold Plated Brass Dielectric: PTFE
	SMA • HT18M-S (Male)	DC to 18 GHz	1.20:1	1.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE
	SMA • HT18M-1FX (Male)	DC to 18 GHz	1.20:1	1.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated Brass Dielectric: PTFE
J.	SMA • HT18QMM (Male) Quick Mate	DC to 18 GHz	1.15:1	1.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE
	SMA • HT18EMS (Male)	DC to 18 GHz	1.30:1	2.0 WATTS	 Housing: Nickel Plated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE
Contraction of the second	SMA • HT18M2-02 (Male) • HT18M2-02C (with Chain)	DC to 18 GHz	1.20:1	2.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE & PEI
1	SMA • HT26M-2 (Male)	DC to 26.5 GHz	1.25:1	2.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Dielectric: PTFE & PEI
	SMA • HT18F-2 (Female)	DC to 18 GHz	1.20:1	2.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Alloy Dielectric: PTFE & PEI Heat Sink: Albaloy Plated Brass
anna ann	SMA • HT18F-2G (Female)	DC to 18 GHz	1.20:1	2.0 WATTS	 Housing: Gold Plated Brass Contact: Gold Plated BeCu Alloy Dielectric: PTFE & PEI Heat Sink: Albaloy Plated Brass
	SMA • HT18F-2G-1 (Female)	DC to 18 GHz	1.20:1	2.0 WATTS	 Housing: Gold Plated Brass Contact: Gold Plated BeCu Alloy Dielectric: PTFE & PEI
	SMA • HT18M-5 (Male) • HT18F-5 (Female)	DC to 18 GHz	1.20:1	5.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Alloy Dielectric: PTFE & PEI Heat Sink: Black Anodized Aluminum
	SMA • HT18M-10 (Male)	DC to 18 GHz	1.350:1	10.0 WATTS	 Housing: Passivated Stainless Steel Contact: Gold Plated BeCu Alloy Dielectric: PTFE & PEI Heat Sink: Black Anodized Aluminum
	SMPM • HT6SMPMF (Female) • HT6SMPMF-1 (Female)	DC to 6 GHz	1.20:1	.25 WATT 1 WATT	 Housing and Contact: Gold Plated BeCu Ferrule & Cover: Gold Plated Brass Dielectric: PPO
	7/16 • HT716M-25 (Male)	DC to 6 GHz	1.25:1	25.0 WATT	 Housing: Albaloy Plated Brass Contact: Silver Plated Phosphor Bronze Dielectric: PTFE Heat Sink: Black Anodized Aluminum

WAVEGUIDE TERMINATIONS

рното	ТҮРЕ	FREQUENCY	MAX. VSWR	POWER	FLANGE
	PART # WR-08 (0.9" length)	RANGE 90 to 140 GHz	1.10:1	02 WATTS	MATERIAL • WG: Gold Plated Copper • Flange: UG-387/U-M Round
Carlos Composition	HWLPT08-02-ER WR-10 (2.0" length)	75 to 110 GHz	1.50:1	0.3 WATTS	Gold Plated Brass WG: Gold Plated Aluminum Flange: UG-387/U-M Round
	HWLPT10-ER WR-10 (1.5" length)	75 - 440 CU	105.1	0.011/1775	Gold Plated Aluminum • WG: Gold Plated Copper
U.	HWLPT10-03-ER	75 to 110 GHz	1.05:1	0.3 WATTS	Flange: UG-387/U-M Round Gold Plated Brass
No. of the second se	WR-12 (2.0" length) HWLPT12-ER	60 to 90 GHz	1.05:1	0.3 WATTS	 WG: Gold Plated Aluminum Flange: UG-387/U Round Gold Plated Aluminum
(5)	WR-12 (1.5" length) HWLPT12-03-ER	60 to 90 GHz	1.05:1	0.3 WATTS	 WG: Gold Plated Copper Flange: UG-387/U Round Gold Plated Brass
No. Company	WR-15 (2.0" length) HWLPT15-ER	50 to 75 GHz	1.05:1	0.3 WATTS	 WG: Gold Plated Aluminum Flange: UG-385/U Round Gold Plated Aluminum
HWLFTI S-03-BR	WR-15 (1.5" length) HWFBI15-03-ER	50 to 75 GHz	1.05:1	0.3 WATTS	 WG: Gold Plated Aluminum Flange: UG-385/U Round Gold Plated Aluminum
- Contraction	WR-19 (1.75" length) HWLPT19-2-ER	40 to 60 GHz	1.05:1	2.0 WATTS	 WG: Gold Plated Copper Flange: UG-383/U-M Round Gold Plated Brass
Reverses and	WR-22 (2.0" length) HWLPT22-2-ER	33 to 50 GHz	1.05:1	4.0 WATTS	 WG: Gold Plated Copper Flange: UG-383/U Round Gold Plated Brass
	WR-28 (0.56" length) HWLPT28-1-ES	26.5 to 40 GHz	1.30:1	1.0 WATTS	WG: Gold Plated CopperFlange: UG-599/U Square
	WR-34 (0.69" length) HWLPT34-2-ES	22 to 33 GHz	1.25:1	1.0 WATTS	WG: Gold Plated CopperFlange: UG-1530/U Square
	WR-42 (1.0" length) HWLPT42-2-ES	18 to 26.5 GHz	1.25:1	1.0 WATTS	WG: Gold Plated CopperFlange: UG-1530/U Square
	WR-51 (1.0" length) HWLPT51-1-ES HWLPT51-2-ES	15 to 22 GHz	1.20:1	1.0 WATTS 2.0 WATTS	WG: Gold Plated CopperFlange: UBR180 Square
	WR-62 (1.0" length) HWLPT62-2-ES	12.4 to 18 GHz	1.20:1	2.0 WATTS	WG: Gold Plated CopperFlange: UG-1665/U Square
· · · · ·	WR-75 (1.0" length) HWLPT75-2-ES	10 to 15 GHz	1.20:1	2.0 WATTS	WG: Gold Plated CopperFlange: UG-138/U Square
Landie -	WR-90 (1.0" length) HWLPT90-1-ES HWLPT90-2-ES	8.2 to 12.4 GHz	1.20:1	1.0 WATTS 2.0 WATTS	WG: Gold Plated CopperFlange: UG-135/U Square
	WR-112 (1.13" length) HWLPT112-2-ES	7.05 to 10 GHz	1.20:1	2.0 WATTS	WG: Gold Plated CopperFlange: UG-138/U Square