

12 Waveguide Isolator

12.1 Waveguide Isolator



【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR	IL (dB)	Isolation (dB)	Flange	Material
VT14WISO...	WR650	1.13-1.73	≤5%	≤1.2	≤0.3	≥20	FDP	Al
VT18WISO...	WR510	1.45-2.20	≤5%	≤1.2	≤0.3	≥20	FDP	Al
VT22WISO...	WR430	1.72-2.61	≤5%	≤1.2	≤0.3	≥20	FDP	Al
VT26WISO...	WR340	2.17-3.30	≤5%	≤1.2	≤0.3	≥20	FDP	Al
VT32WISO...	WR284	2.60-3.95	≤5%	≤1.2	≤0.3	≥20	FDP	Al
VT40WISO...	WR229	3.22-4.90	≤10%	≤1.2	≤0.3	≥20	FDP	Al
VT48WISO...	WR187	3.94-5.99	≤10%	≤1.2	≤0.3	≥20	FDP	Al
VT58WISO...	WR159	4.64-7.05	≤10%	≤1.2	≤0.3	≥20	FDP	Al
VT70WISO...	WR137	5.38-8.17	≤10%	≤1.2	≤0.3	≥20	FDP	Al
VT84WISO...	WR112	6.57-9.99	≤15%	≤1.2	≤0.3	≥20	FBP	Al
VT100WISO...	WR90	8.2-12.5	≤15%	≤1.2	≤0.3	≥20	FBP	Al
VT120WISO...	WR75	9.84-15.0	≤15%	≤1.2	≤0.3	≥20	FBP	Al
VT140WISO...	WR62	11.9-18.0	≤15%	≤1.2	≤0.3	≥20	FBP	Al
VT180WISO...	WR51	14.5-22.0	≤15%	≤1.2	≤0.3	≥20	FBP	Al
VT220WISO...	WR42	17.6-26.7	≤15%	≤1.25	≤0.4	≥20	FBP	Cu
VT260WISO...	WR34	21.7-33.0	≤15%	≤1.25	≤0.4	≥20	FBP	Cu
VT320WISO...	WR28	26.5-40.0	≤15%	≤1.25	≤0.4	≥20	FBP	Cu
VT400WISO...	WR22	32.9-50.1	≤5%	≤1.5	≤0.6	≥17	FUGP	Cu
VT500WISO...	WR19	39.2-59.6	≤5%	≤1.5	≤0.6	≥15	FUGP	Cu
VT620WISO...	WR15	49.8-75.8	≤5%	≤1.5	≤0.6	≥15	FUGP	Cu
VT740WISO...	WR12	60.5-91.9	≤5%	≤1.5	≤0.8	≥15	FUGP	Cu
VT900WISO...	WR10	73.8-110	≤5%	≤1.5	≤1.0	≥15	FUGP	Cu

*Indicates Model Number. See Ordering Information for complete part number.

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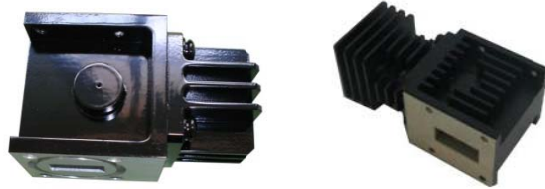
Vector Telecom Pty Ltd

Website: www.vectortele.com

Email: sales@vectortele.com



12.2 High Power Waveguide Isolator



【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR	IL (dB)	Isolation (dB)	Avg Power (W)	Flange	Material
VT14WHPISO...	WR650	1.13-1.73	≤5%	≤1.20	≤0.3	≥20	≤2500	FDP	Al
VT18WHPISO...	WR510	1.45-2.20	≤5%	≤1.20	≤0.3	≥20	≤2500	FDP	Al
VT22WHPISO...	WR430	1.72-2.61	≤5%	≤1.20	≤0.3	≥20	≤2000	FDP	Al
VT32WHPISO...	WR284	2.60-3.95	≤5%	≤1.20	≤0.3	≥20	≤2000	FDP	Al
VT40WHPISO...	WR229	3.22-4.90	≤10%	≤1.20	≤0.3	≥20	≤1500	FDP	Al
VT48WHPISO...	WR187	3.94-5.99	≤10%	≤1.20	≤0.3	≥20	≤1500	FDP	Al
VT58WHPISO...	WR159	4.64-7.05	≤10%	≤1.20	≤0.3	≥20	≤1500	FDP	Al
VT70WHPISO...	WR137	5.38-8.17	≤10%	≤1.20	≤0.3	≥20	≤500	FDP	Al
VT84WHPISO...	WR112	6.57-9.99	≤10%	≤1.25	≤0.3	≥20	≤500	FBP	Al
VT100WHPIS...	WR90	8.2-12.5	≤10%	≤1.25	≤0.3	≥20	≤300	FBP	Al
VT120WHPIS...	WR75	9.84-15	≤10%	≤1.25	≤0.3	≥20	≤200	FBP	Al
VT140WHPIS...	WR62	11.9-18	≤10%	≤1.25	≤0.3	≥20	≤200	FBP	Al
VT180WHPIS...	WR51	14.5-22.0	≤10%	≤1.25	≤0.3	≥20	≤100	FBP	Al
VT220WHPIS...	WR42	17.6-26.7	≤10%	≤1.25	≤0.4	≥20	≤80	FBP	Cu
VT260WHPIS...	WR34	21.7-33.0	≤10%	≤1.25	≤0.4	≥20	≤80	FBP	Cu
VT320WHPIS...	WR28	26.5-40.0	≤10%	≤1.25	≤0.4	≥20	≤50	FBP	Cu
VT400WHPIS...	WR22	32.9-50.1	≤5%	≤1.35	≤0.6	≥17	≤3	FUGP	Cu
VT500WHPIS...	WR19	39.2-59.6	≤5%	≤1.50	≤0.6	≥15	≤2	FUGP	Cu
VT620WHPIS...	WR15	49.8-75.8	≤5%	≤1.50	≤0.6	≥15	≤1	FUGP	Cu
VT740WHPIS...	WR12	60.5-91.9	≤5%	≤1.50	≤0.8	≥15	≤1	FUGP	Cu
VT900WHPIS...	WR10	73.8-110	≤5%	≤1.50	≤1.0	≥15	≤1	FUGP	Cu

*Indicates Model Number. See Ordering Information for complete part number.

12.3 High Power Waveguide Differential Phase Shift Isolator





Section 1

Waveguide Components

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Waveguide Isolator



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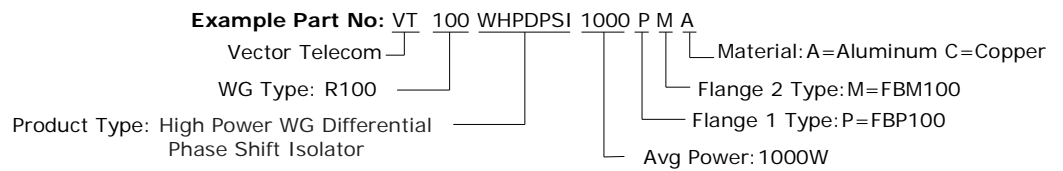
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【Specifications】

Model No*	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR	IL (dB)	Isolation (dB)	Avg Power (W)	Flange Type	Material
VT14WHPDPSI40KW	WR650	1.13-1.73	≤5%	≤1.2	≤0.3	≥20	40k	FDP	Al
VT18WHPDPSI30KW	WR510	1.45-2.20	≤5%	≤1.2	≤0.3	≥20	30k	FDP	Al
VT22WHPDPSI20KW	WR430	1.72-2.61	≤5%	≤1.2	≤0.3	≥20	20k	FDP	Al
VT26WHPDPSI20KW	WR340	2.17-3.30	≤5%	≤1.2	≤0.3	≥20	20k	FDP	Al
VT32WHPDPSI10KW	WR284	2.60-3.95	≤5%	≤1.2	≤0.4	≥20	10k	FDP	Al
VT40WHPDPSI5KW	WR229	3.22-4.90	≤5%	≤1.2	≤0.4	≥20	5k	FDP	Al
VT48WHPDPSI8KW	WR187	3.94-5.99	≤5%	≤1.2	≤0.4	≥20	8k	FDP	Al
VT84WHPDPSI1200W	WR112	6.57-9.99	7%	≤1.25	≤0.4	≥20	1.2k	FBP	Cu
VT100WHPDPSI1000W	WR90	8.2-12.5	7%	≤1.25	≤0.5	≥20	1k	FBP	Cu
VT120WHPDPSI1000W	WR75	9.84-15.0	7%	≤1.25	≤0.5	≥20	1k	FBP	Cu
VT140WHPDPSI800W	WR62	11.9-18.0	7%	≤1.25	≤0.5	≥20	800	FBP	Cu
VT180WHPDPSI800W	WR51	14.5-22.0	7%	≤1.25	≤0.5	≥20	800	FBP	Cu

*Indicates Model Number. See Ordering Information for complete part number.

【Ordering Information】



Code	Description
WISO	Waveguide Isolator
WHPISO	Waveguide High Power Termination
WHPDPSI	High Power Waveguide Differential Phase Shift Isolator

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat