



The Engineer's Immediate RF Source



2022
Antennas

Broad Selection of Ready-to-Ship Antennas

Pasternack offers a large and diverse selection of antennas for many applications covering frequencies from 40 MHz to 200 GHz.

The product range includes a comprehensive selection of waveguide antennas: standard gain horns, conical horns, scalar feed horns, lens horns, and omni-directional with waveguide flanges. These can be mounted directly to waveguides, or may be combined with a wide selection of waveguide-to-coax adapters when coaxial cable connections are preferred. Applications include R&D, Manufacturing, Test & Measurement, and Defense/Aerospace.

For wireless applications, the products include indoor, outdoor, vehicular and portable radio antennas. The wireless offerings include both omni directional and directional antennas with a selection of gains and beam widths. These products may be deployed in a number of applications including Land Mobile Radio, Public Safety, RFID, GPS, WLAN, LPWAN/IoT, and Cellular. Necessary mounting hardware is included with every antenna. Outdoor antennas are weatherproof and operate over a wide temperature range. Models with Radome housings use UV-resistant plastic.

All antenna models can be viewed online at www.pasternack.com with real-time pricing, inventory, and comprehensive datasheets that include typical performance graphs and detailed CAD drawings. Applications engineers are standing by to answer any of your technical questions and can assist with selecting the right product for your specific application.

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Directional Antennas

Panel Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51FP1012 	617 - 698, 698 - 960, 1,710 - 2,700, 3,300 - 4,200, 4,900 - 6,000	2:1	5.5 / 6 dBi	±45 Deg. Slant
PE51FP1013 	698 - 806, 806 - 960, 1,710 - 2,170, 2,200 - 2,700, 3,400 - 4,200	1.8:1	5 / 6 dBi	Vertical
PE51239 	698 - 806, 806 - 960, 1,710 - 2,700, 3,300 - 4,200	2:1	5 / 6 dBi	Vertical/Horizontal
PE51FP1014 	698 - 806, 806 - 960, 1,710 - 2,700, 3,300 - 4,200	2:1	5 / 6 dBi	Vertical/Horizontal
PE51FP1006 	824 - 960	1.8:1	9 dBi	Vertical or Horizontal
PE51025 	902 - 928	1.2:1	8.5 dBi	LHCP
PE51024 	902 - 928	1.2:1	8.5 dBi	RHCP
PE51FP1007 	902 - 928	1.5:1	8 dBi	LHCP
PE51FP1008 	902 - 928	1.5:1	8 dBi	RHCP
PE51FP1008-1 	902 - 928	1.5:1	8 dBi	RHCP
PE51FP1008-2 	902 - 928	1.5:1	8 dBi	RHCP
PE51FP1008-3 	902 - 928	1.5:1	8 dBi	RHCP
PE51FP1005 	902 - 928	1.5:1	8 dBi	Vertical or Horizontal
PE51FP1005-1 	902 - 928	1.5:1	8 dBi	Vertical or Horizontal
PE51FP1005-2 	902 - 928	1.5:1	8 dBi	Vertical or Horizontal

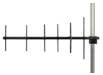
Panel Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51FP1005-3 	902 - 928	1.5:1	8 dBi	Vertical or Horizontal
PE51FP1005-4 	902 - 928	1.5:1	8 dBi	Vertical or Horizontal
PE51023 	902 - 928	1.8:1	9 dBi	Vertical
PE51FP1002 	2,400 - 2,500, 4,900 - 5,850	2:1	9 / 10 dBi	Vertical/Horizontal
PE51FP1003 	2,400 - 2,500, 4,900 - 5,850	2:1	11 dBi	Vertical/Horizontal
PE51FP1004 	2,400 - 2,500, 4,900 - 5,850	2:1	13 / 14 dBi	Vertical/Horizontal
PE51FP1001 	2,400 - 2,500, 4,900 - 5,850		8 / 10 dBi	Vertical/Horizontal
PE51FP1010 	4,900 - 5,850	1.5:1	23 dBi	Vertical or Horizontal
PE51FP1011 	4,900 - 5,850	1.8:1	19 dBi	Vertical or Horizontal

Fixed Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51129 	4,400 - 6,400	1.5:1	9 dBi	Vertical

Yagi Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51YA1015 	400 - 435, 435 - 470	1.7:1	10 / 10.5 dBi	Linear
PE51YA1007 	824 - 960	1.5:1	3 dBi	Vertical or Horizontal

Yagi Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51YA1008 	824 - 960	1.5:1	6 dBi	Vertical or Horizontal
PE51YA1009 	824 - 960	1.5:1	9 dBi	Vertical or Horizontal
PE51YA1010 	824 - 960	1.5:1	12 dBi	Vertical or Horizontal
PE51YA1011 	824 - 960	1.5:1	14 dBi	Vertical or Horizontal
PE51YA1019 	880 - 928, 928 - 960	1.5:1	7 / 7.5 dBi	Linear
PE51YA1018 	880 - 928, 928 - 960	1.5:1	9 / 9.5 dBi	Linear
PE51YA1017 	880 - 928, 928 - 960	1.5:1	11 / 11.5 dBi	Linear
PE51YA1016 	880 - 928, 928 - 960	1.5:1	13 / 13 dBi	Linear
PE51YA1012 	890 - 960	1.5:1	9 dBi	Vertical or Horizontal
PE51YA1013 	890 - 960	1.5:1	13 dBi	Vertical or Horizontal
PE51171 	890 - 960	2.1:1	11 dBi	Vertical or Horizontal
PE51YA1014 	900 - 928	1.5:1	14 dBi	Vertical or Horizontal
PE51YA1004 	2,400 - 2,483	1.5:1	12 dBi	Vertical
PE51YA1001 	2,400 - 2,500	1.5:1	9 dBi	Vertical or Horizontal
PE51YA1002 	2,400 - 2,500	1.5:1	12 dBi	Vertical or Horizontal
PE51YA1003 	2,400 - 2,500	1.5:1	14.5 dBi	Vertical or Horizontal

Yagi Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51YA1006 	4,900 - 5,850	1.5:1	17 dBi	Vertical or Horizontal
PE51YA1005 	5,725 - 5,825	1.5:1	16.5 dBi	Vertical

Dish Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51PD1004 	2,400 - 2,500	1.5:1	18 dBi	H/V or 45 Deg. Slant
PE51PD1005 	2,400 - 2,500	1.5:1	22 dBi	H/V or 45 Deg. Slant
PE51PD1006 	2,400 - 2,500	1.5:1	25 dBi	H/V or 45 Deg. Slant
PE51PD1002 	4,750 - 5,850, 5,400 - 5,800	1.5:1	30 / 28	H/V or 45 Deg. Slant
PE51PD1003 	4,750 - 5,850, 5,400 - 5,800	1.5:1	34	H/V or 45 Deg. Slant
PE51PD1001 	4,750 - 5,850	1.5:1	25 dBi	H/V or 45 Deg. Slant

Log Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51LP1001 	698 - 960, 1,710 - 2,500	1.6:1	9 / 10 dBi	Vertical or Horizontal
PE51LP1002 	2,400 - 6,500	1.5:1	8 dBi	Vertical

Sector Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51SE1006 	698 - 960, 1,710 - 2,700	1.6 / 1.7:1	14 / 14 dBi	Vertical

Sector Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51SE1005 	698 - 960, 1,710 - 2,700	1.8:1	12 / 12 dBi	Vertical
PE51SE1004 	698 - 960, 1,710 - 2,700	1.9:1	10 / 10 dBi	45 Deg. Slant
PE51SE1003 	900 - 930	2:1	13 dBi	Horizontal
PE51FP1009 	902 - 928	1.5:1	12.5 dBi	Vertical/Horizontal
PE51SE1009 	2,400 - 2,500	1.3:1	2 dBi	Vertical
PE51SE1001 	2,400 - 2,500	1.5:1	14 dBi	Vertical or Horizontal
PE51SE1002 	2,400 - 2,500, 4,900 - 5,850	1.5 / 2:1	13 / 15	Vertical/Horizontal
PE51SE1007 	2,400 - 2,500, 5,725 - 5,875	1.5:1	5 / 5 dBi	Vertical or Horizontal
PE51SE1008 	4,900 - 5,850	1.7:1	16 dBi	Vertical or Horizontal

Omni Directional Antennas

Ceiling Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51217 	617 - 960, 1,350 - 1,550 / 1,690 - 2,700, 3,300 - 3,800, 4,900 - 6,000	1.8:1	1.5 / 3.5 dBi	Linear
PE51223 	619 - 960, 1,350 - 1,550 / 1,690 - 2,700, 3,300 - 3,800, 4,900 - 6,000	1.8:1	1.5 / 3.5 dBi	Linear
PE51218 	618 - 960, 1,350 - 1,550 / 1,690 - 2,700, 3,300 - 3,800, 4,900 - 6,000	1.8:1	1.5 / 3.5 dBi	Linear/Horizontal
PE51224 	620 - 960, 1,350 - 1,550 / 1,690 - 2,700, 3,300 - 3,800, 4,900 - 6,000	1.8:1	1.5 / 3.5 dBi	Linear/Horizontal

Ceiling Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51219 	617 - 698, 698 - 960, 1,710 - 2,700, 3,400 - 4,200, 4,900 - 6,000	1.8 / 1.8 / 1.5 / 1.7 / 1.7:1	1.8 / 2 dBi	vertical
PE51225 	618 - 698, 698 - 960, 1,710 - 2,700, 3,400 - 4,200, 4,900 - 6,000	1.8 / 1.8 / 1.5 / 1.7 / 1.7:1	1.8 / 2 dBi	vertical
PE51220 	698 - 960, 1,350 - 1,550, 1,690 - 2,700, 3,300 - 4,200	1.8:1	2.2 / 3.5 dBi	Linear
PE51226 	698 - 960, 1,350 - 1,550, 1,690 - 2,700, 3,300 - 4,200	1.8:1	2.2 / 3.5 dBi	Linear
PE51221 	698 - 806, 806 - 960, 1,350 - 1,550, 1,710 - 2,700, 3,300 - 4,200	1.8 / 1.8 / 2 / 1.8 / 1.8:1	1.5 / 2.2 dBi	Linear/Horizontal
PE51227 	698 - 806, 806 - 960, 1,350 - 1,550, 1,710 - 2,700, 3,300 - 4,200	1.8 / 1.8 / 2 / 1.8 / 1.8:1	1.5 / 2.2 dBi	Linear/Horizontal
PE51222 	700 - 806, 806 - 960, 1,710 - 2,700, 3,300 - 4,200	2:1	3 / 3.5 dBi	Vertical/Horizontal
PE51228 	701 - 806, 806 - 960, 1,710 - 2,700, 3,300 - 4,200	2:1	3 / 3.5 dBi	Vertical/Horizontal

Dome Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51158 	698 - 960, 1,710 - 2,700	1.7 / 1.5:1	2 / 5 dBi	Vertical
PE51059 	800 - 3,000	2:1	3 dBi	Vertical
PE51058 	800 - 3,000	2:1	7.5 dBi	Vertical
PE51096 	806 - 960, 1,710 - 2,500	1.5:1	3 dBi	Vertical

Fixed Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51028 	902 - 928	2:1	5 dBi	Vertical
PE51062 	2,250 - 2,350	1.43:1	3 dB	Vertical
PE51063 	2,350 - 2,450	1.3:1	3 dBi	Vertical
PE51172 	2,400 - 2,500	2.1:1	8 dBi	Vertical
PE51061 	2,400 - 2,500	2:1	8 dBi	Vertical
PE51064 	2,450 - 2,550	1.43:1	3 dB	Vertical
PE51034 	3,400 - 3,600	1.5:1	11 dBi	Vertical
PE51065 	3,450 - 3,550	1.4:1	3 dBi	Vertical
PE51037 	5,470 - 5,725	1.5:1	12 dBi	Vertical
PE51040 	5,725 - 5,850	1.5:1	12 dBi	Vertical

GPS Active Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51212 	824 - 2,170	2.5:1	5 dBic	
PE51GPS1005 	1,166 - 1,606	1.8:1	43 dBic	RHCP
PE51067 	1,570 - 1,580	1.3:1	32 dBic	RHCP
PE51TM1000 	1,574 - 1,610	2:1	32 dBi	RHCP

GPS Active Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51TM1001 	1,574 - 1,610	2:1	32 dBi	RHCP

GPS Passive Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51068 	1,220 - 1,230, 1,530 - 1,580		6 dBic	RHCP
PE51066-1 	1,572.42 - 1,578.42	1.5:1	3 dBi	RHCP
PE51066-2 	1,572.42 - 1,578.42	1.5:1	3 dBi	RHCP
PE51GPS1004 	1,575 - 1,615	2:1	3 dB	RHCP

Mobile Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51GM1002 	824 - 960, 1,710 - 2,200, 2,400 - 2,500	2:1	2 / 2 dBi	Vertical
PE51113-1 	880 - 965, 1,710 - 2,170	2:1	3 dBi	Vertical
PE51113-2 	880 - 965, 1,710 - 2,170	2:1	3 dBi	Vertical
PE51113-3 	880 - 965, 1,710 - 2,170	2:1	3 dBi	Vertical
PE51113-4 	880 - 965, 1,710 - 2,170	2:1	3 dBi	Vertical
PE51MO1001 	900 - 960, 2,400 - 2,500	1.5:1	3 dBi	Vertical
PE51MO1002 	900 - 960, 2,400 - 2,500	1.5:1	3 / 3 dBi	Vertical

Mobile Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51OM1022 	2,400 - 2,500, 900 - 960		3 dBi	Vertical
PE51027 	902 - 928	2:1	4 dBi	Vertical
PE51MO1003 	2,400 - 2,500	1.5:1	3 dBi	Vertical
PE51OM1023 	2,400 - 2,500	1.5:1	3 dBi	Vertical
PE51MO1004 	2,400 - 2,500	1.5:1	5 dBi	Vertical
PE51136 	2,400 - 2,500		3 dB	Vertical

Omni Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51OM1039 	617 - 960, 1,710 - 2,700	2:1	6 / 6 dBi	Vertical
PE51OM1040 	617 - 960, 1,710 - 3,800	2/2.5:1	7 / 7 dBi	Vertical
PE51OM1033 	698 - 960	2:1	6 dBi	Vertical
PE51OM1034 	698 - 960	2:1	6 dBi	Vertical
PE51OM1035 	698 - 960	2:1	8 dBi	Vertical
PE51OM1036 	698 - 960	2:1	8 dBi	Vertical
PE51OM1020 	698 - 960, 1,710 - 2,700	1.6:1	4 / 4 dBi	Vertical
PE51OM1038 	698 - 960, 1,710 - 2,700	1.7:1	6 / 8	Vertical

Omni Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51OM1031 	698 - 806, 806 - 960, 1,710 - 2,700, 3,300 - 4,200	1.8:1	3 / 3 dBi	Vertical
PE51OM1032 	699 - 806, 806 - 960, 1,710 - 2,700, 3,300 - 4,200	1.8:1	3 / 3 dBi	Vertical
PE51OM1013 	824 - 960	1.5:1	3 / 6 dBi	Vertical
PE51OM1014 	824 - 960	1.5:1	6 dBi	Vertical
PE51OM1015 	900 - 928	1.5:1	6 dBi	Vertical
PE51OM1016 	900 - 928	1.5:1	8 dBi	Vertical
PE51OM1017 	900 - 928	1.6:1	3 / 6 dBi	Vertical
PE51OM1018 	900 - 928	1.6:1	6 dBi	Vertical
PE51OM1019 	900 - 928	1.6:1	8 dBi	Vertical
PE51OM1043 	1,710 - 2,700	2.3:1	1 dBi	Vertical
PE51OM1041 	1,710 - 2,700	2.3:1	6 dBi	Vertical
PE51OM1042 	1,710 - 2,700	2.3:1	8 dBi	Vertical
PE51OM1024 	2,400 - 2,500	1.5:1	4 dBi	Vertical
PE51OM1045 	2,400 - 2,500	1.5:1	12 dBi	Vertical/Horizontal
PE51OM1025 	2,400 - 2,500	2:1	7.4 dBi	Vertical
PE51OM1026 	2,400 - 2,500	2:1	8 dBi	Vertical

Omni Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51OM1007 	2,400 - 2,500, 5,100 - 5,800	1.6 / 1.8:1	6 / 9 dBi	Vertical/Horizontal
PE51OM1008 	2,400 - 2,500, 5,100 - 5,800	1.6 / 1.8:1	6 / 11 dBi	Vertical/Horizontal
PE51OM1009 	2,400 - 2,500, 5,100 - 5,800	1.6 / 1.9:1	6 dBi	Vertical/Horizontal
PE51OM1010 	2,400 - 2,500, 5,100 - 5,800	1.6 / 1.9:1	6 / 6 dBi	Vertical/Horizontal
PE51OM1011 	2,400 - 2,500, 5,100 - 5,800	1.6 / 1.9:1	6 / 11 dBi	Vertical/Horizontal
PE51OM1004 	2,400 - 2,500, 5,725 - 5,850	1.5:1	6 / 6 dBi	Vertical
PE51OM1005 	2,400 - 2,500, 5,725 - 5,850	1.6:1	9 / 9 dBi	Vertical
PE51OM1012 	2,400 - 2,500, 4,900 - 5,850	1.8:1	4 / 6 dBi	Vertical
PE51OM1002 	2,400 - 2,500, 4,900 - 5,850	2.5:1	5 / 6 dBi	Vertical
PE51OM1003 	2,400 - 2,500, 4,900 - 5,850	2.5:1	7 / 8 dBi	Vertical
PE51OM1001 	2,400 - 2,500, 4,900 - 5,850	2:1	3.5 / 4 dBi	Vertical
PE51OM1006 	2,400 - 2,500, 5,100 - 5,900	1.6 / 1.8:1	6 / 6 dBi	Vertical/Horizontal
PE51OM1044 	2,500 - 2,700	1.5:1	12 dBi	Vertical
PE51OM1046 	3,300 - 3,800	2:1	1 dBi	Vertical
PE51OM1047 	3,300 - 3,800	2:1	8 dBi	±45 Deg. Slant
PE51OM1049 	3,300 - 3,800	2:1	12 dBi	±45 Deg. Slant

Omni Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51OM1048 	3,300 - 3,800	2:1	13 dBi	±45 Deg. Slant

Panel Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51FP1015 	617 - 698, 698 - 960, 1,710 - 2,700, 3,300 - 4,200, 4,900 - 6,000	2:1	5.5 / 6 dBi	±45 Deg. Slant
PE51FP1016 	698 - 806, 806 - 960, 1,710 - 2,170, 2,200 - 2,700, 3,400 - 4,200	1.8:1	5 / 6 dBi	Vertical

PCB Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51200 	698 - 960, 1,710 - 2,170, 2,300 - 2,700	2.5:1	5 / 2.5 dBi	Vertical
PE51199 	704 - 960, 1,574 - 1,576, 1,710 - 2,200, 2,496 - 2,690	2:1	3 dBi	
PE51195 	824 - 960	3:1	0 dBi	Vertical
PE51198 	824 - 960, 1,710 - 2,200	2.5:1	0 dBi	
PE51197 	824 - 960, 1,710 - 2,200	2:1	2 dBi	
PE51194 	824 - 960, 1,710 - 1,880, 1,900 - 2,200	3:1	0 dBi	
PE51196 	824 - 960, 1,710 - 2,200	3:1	3 dBi	Vertical
PE51216 	860 - 960	3:1	2 dBi	Vertical

PCB Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51213 	2,400 - 2,500	2.3:1	2 dBi	Vertical or Horizontal
PE51206 	2,400 - 2,500	2:1	1 dBi	
PE51204 	2,400 - 2,500	2:1	2 dBi	
PE51208 	2,400 - 2,500	2:1	2 dBi	
PE51209 	2,400 - 2,500	2:1	2.6 dBi	Vertical
PE51205 	2,400 - 2,500	2:1	3 dBi	
PE51207 	2,400 - 2,500	2:1	3 dBi	
PE51210 	2,400 - 2,500	2:1	3.5 dBi	Vertical
PE51203 	2,400 - 2,500, 4,900 - 5,900	2.5:1	4.5 / 4.5 dBi	RHCP
PE51201 	2,400 - 2,500, 4,900 - 5,900	2:1	2.5 dBi	
PE51214 	2,400 - 2,500, 5,100 - 5,900	2:1	3 / 6 dBi	Vertical or Horizontal
PE51202 	2,400 - 2,500, 4,900 - 5,900	2:1	3 dBi	
PE51215 	4,900 - 5,900		4.5 dBi	Horizontal
PE51211 	5,150 - 5,850	2:1	3 dBi	

Portable Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51TW1000 	118 - 174	2:1	0 dBi	Vertical
PE51146 	400 - 420	2:1	0 dBi	Vertical
PE51159 	420 - 450	2:1	0 dBi	Vertical
PE51160 	420 - 450	2:1	0 dBi	Vertical
PE51161 	470 - 512	2:1	0 dBi	Vertical
PE51OM1030 	615 - 960, 1,710 - 2,690	3:1	3 / 3 dBi	Vertical
PE51OM1027 	615 - 960, 1,710 - 2,700	3:1	3.5 / 3.5 dBi	Vertical
PE51OM1029 	615 - 960, 1,710 - 2,700	3:1	3.5 / 3.5 dBi	Vertical
PE51RD1031 	615 - 960, 1,400 - 2,700, 3,300 - 4,200	3:1	4.5 / 4.5 dBi	Vertical
PE51RD1030 	615 - 960, 1,710 - 2,700, 3,300 - 4,200, 5,150 - 7,15	3:1	3.5 / 2 dBi	Vertical
PE51OM1028 	617 - 960, 1,710 - 2,690	3:1	3 / 3 dBi	Vertical
PE51RD1032 	617 - 960, 1,427 - 2,700, 3,300 - 5,850	3.5:1	2 / 2 dBi	Vertical
PE51157 	698 - 780	2:1	0 dBi	Vertical
PE51154 	698 - 870	2.3:1	2 dBi	Vertical
PE51152 	698 - 870	2:1	2 dBi	Vertical
PE51RD1027 	698 - 960, 1,710 - 2,700	4.5 / 2:1	3 / 3 dBi	Vertical

Portable Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51RD1028 	700 - 960, 1,710 - 2,170, 2,500 - 2,700	3 / 2.5 / 2.5:1	4 / 4 dBi	Vertical
PE51166 	760 - 870	2:1	0 dBi	Vertical
PE51OM1021 	824 - 928, 900 - 928	1.7 / 1.5:1	8.5 / 10 dBi	Vertical/Horizontal
PE51164 	880 - 960	2:1	0 dBi	Vertical
PE51165 	880 - 960	2:1	0 dBi	Vertical
PE51089-1 	890 - 960, 1,710 - 1,880	2:1	3 dBi	Vertical
PE51089-2 	890 - 960, 1,710 - 1,880	2:1	3 dBi	Vertical
PE51089-3 	890 - 960, 1,710 - 1,880	2:1	3 dBi	Vertical
PE51089-4 	890 - 960, 1,710 - 1,880	2:1	3 dBi	Vertical
PE51056 	900 - 960	1.5:1	0 dBi	Vertical
PE51055 	900 - 960	2.1:1	3 dBi	Vertical
PE51026 	902 - 928	2:1	3 dBi	Vertical
PE51119 	1,700 - 1,850	2:1	3.5 dBi	Vertical
PE51117A 	1,700 - 2,500	2:1	2 dBi	Vertical
PE51173 	1,700 - 2,500	2:1	2 dBi	Vertical
PE51121 	1,900 - 2,500	2:1	3.5 dBi	Vertical

Portable Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51123 	2,200 - 2,500	2:1	6 dBi	Vertical
PE51090 	2,300 - 2,700	2:1	6.5 dBi	Vertical
PE51133 	2,400 - 2,500	1.43:1	3 dBi	Vertical
PE51077 	2,400 - 2,500	2:1	2.2 dBi	Vertical/Horizontal
PE51078 	2,400 - 2,500	2:1	5.5 dBi	Vertical
PE51087 	2,400 - 2,500, 4,900 - 5,800	2:1	2.5 dBi	Vertical
PE51088 	2,400 - 2,500, 4,900 - 5,100, 5,100 - 5,800	2 / 3 / 2.5:1	2 dBi	Vertical
PE51080 	2,400 - 2,500, 4,900 - 5,825	2:1	2 dBi	Vertical
PE51081 	2,400 - 2,500, 4,900 - 5,825	2:1	2 / 3 dBi	Vertical
PE51082 	2,400 - 2,500, 4,900 - 5,825	2:1	2 dBi	Vertical
PE51083 	2,400 - 2,500, 4,900 - 5,825	2:1	2 dBi	Vertical
PE51142 	2,400 - 2,500, 5,000 - 5,900	2:1	3.5 / 6 dBi	Vertical
PE51143 	2,400 - 2,500, 5,000 - 5,900	2:1	3.5 / 6 dBi	Vertical
PE51144 	2,400 - 2,500, 5,000 - 5,900	2:1	3.5 / 6 dBi	Vertical
PE51RD1025 	2,400 - 7,125	1.7:1	3 dBi	Vertical
PE51RD1026 	2,400 - 7,125	1.7:1	3 dBi	Vertical

Portable Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51084 	3,300 - 3,800	2:1	2 dBi	Vertical
PE51085 	3,400 - 3,800	2:1	5 dBi	Vertical
PE51135A 	4,400 - 5,000	2:1	6 dBi	Vertical
PE51134 	4,400 - 5,000	2:1	6 dBi	Vertical
PE51125A 	5,250 - 5,850	2:1	3.8 dBi	Vertical
PE51127 	5,250 - 5,850	2:1	6 dBi	Vertical

Rubber Duck Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51RD1008 	860 - 960	2:1	3 dBi	Vertical
PE51RD1009 	860 - 960	2:1	3 dBi	Vertical
PE51RD1019 	900 - 930	2.5:1	5 dBi	Vertical
PE51RD1010 	900 - 930	2.5:1	5 dBi	Vertical
PE51RD1011 	900 - 930	2.5:1	5 dBi	Vertical
PE51RD1012 	900 - 930	2.5:1	5 dBi	Vertical
PE51RD1018 	900 - 930	2:1	5 dBi	Linear
PE51RD1020 	2,400 - 2,500	2:1	2 dBi	Linear

Rubber Duck Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51RD1022 	2,400 - 2,500	2:1	2 dBi	Linear
PE51RD1021 	2,400 - 2,500	2:1	2 dBi	Linear
PE51RD1013 	2,400 - 2,500	2:1	3 dBi	Linear
PE51RD1023 	2,400 - 2,500	2:1	3 dBi	Linear
PE51RD1024 	2,400 - 2,500	2:1	3 dBi	Linear
PE51RD1014 	2,400 - 2,500	2:1	4.52 dBi	Linear
PE51RD1015 	2,400 - 2,500	2:1	4.52 dBi	Linear
PE51RD1016 	2,400 - 2,500	2:1	4.52 dBi	Linear
PE51RD1007 	2,400 - 2,500	2:1	5.5 dBi	Vertical
PE51RD1017 	2,400 - 2,500	2:1	7 dBi	Linear
PE51RD1001 	2,400 - 2,500, 4,900 - 5,350	2:1	3 / 3 dBi	Vertical
PE51RD1002 	2,400 - 2,500, 4,900 - 5,350	2:1	3 / 3 dBi	Vertical
PE51RD1003 	2,400 - 2,500, 4,900 - 5,350	2:1	3 / 3 dBi	Vertical
PE51RD1004 	2,400 - 2,500, 4,900 - 5,350	2:1	3 / 3 dBi	Vertical
PE51RD1006 	2,400 - 2,500, 5,150 - 5,850	2:1	4.5 / 7 dBi	Vertical

Rubber Duck Antennas Continued

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51RD1005 	2,400 - 2,483, 5,100 - 5,900	2:1	3 / 5 dBi	Vertical

Vehicular Antennas

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51MP1000 	108 - 520	2:1	2 dBi	Linear, Vertical
PE51MP1001 	132 - 174	1.5:1	3 dB	Linear, Vertical
PE51MP1002 	132 - 174	2:1	2 dBi	Linear, Vertical
PE51MP1004 	144 - 174	1.5:1	3 dB	Linear, Vertical
PE51MP1003 	144 - 174	2:1	2 dBi	Linear, Vertical
PE51MP1009 	144 - 174	2:1	2 dBi	Linear, Vertical
PE51MP1005 	380 - 520	2:1	2 dBi	Linear, Vertical
PE51MP1006 	420 - 470	1.5:1	3 dB	Linear, Vertical
PE51MP1007 	420 - 470	1.5:1	5 dB	Linear, Vertical
PE51MP1008 	440 - 480	2:1	3 dBd	Linear, Vertical
PE51MP1011 	450 - 520, 746 - 960	2:1	2 / 2 dBi	Linear, Vertical
PE51MP1010 	698 - 960, 1,710 - 2,150	2:1	2 / 3 dBi	Linear, Vertical
PE51GM1001 	824 - 960, 1,710 - 1,990	2:1	2 dBi	Vertical

Duplexed Antenna Kits

PE P/N	RF Frequency Range (MHz)	VSWR	Contains
PE51AK1000 	100 - 180, 380 - 520, 746 - 870	1.6:1	• Duplexer (VHF/UHF 108-174 MHz/380-870 MHz), with integral N-type (m) Connectors (3 ea.) • Low Loss 195 NMO mount with cable (1 ea.) • RG-58/U NMO mount with cable (1 ea.) • Field Tunable Antennas (2 ea.) • RG-58/U Feed Cable (1 ea.)
PE51AK1001 	101 - 180, 380 - 520, 746 - 870	1.6:1	• Duplexer (VHF/UHF 108-174MHz/380-870MHz) with integral N-Type (m) Connectors (3 ea.) • Low Loss PE51GPS1000 NMO Combination mount with integrated GPS antenna (1 ea.) • RG-58/U NMO mount (1 ea.) • Field Tunable Antennas (2 ea.) • RG-58/U Feed Cable (1 ea.) • HG-GPSNMO58-SMA NMO Combination mount with integrated GPS antenna
PE51AK1002 	102 - 180, 380 - 520, 746 - 870	1.6:1	• Duplexer (VHF/UHF 108-174MHz/450-520MHz /746-870MHz) with integral N-Type (m) Conn (3 ea.) • Low Loss PE51GPS1000 NMO Combination mount with integrated GPS antenna (1 ea.) • RG-58/U NMO mount (1 ea.) • PE51MP1011 multiband antenna (1 ea.) • PE51MP1000 tunable VHF/UHF antenna (1 ea.) • RG-58/U Feed Cable (1 ea.)
PE51AK1003 	103 - 180, 380 - 520, 746 - 870	1.6:1	• Duplexer (VHF/UHF 108-174MHz/450-520MHz/746-870MHz) with integral N-type (m) Connectors (3 ea.) • Low loss 195 NMO mount (1 ea.) • RG-58/U NMO mount (1 ea.) • PE51MP1011 multiband antenna (1 ea.) • PE51MP1000 tunable VHF/UHF antenna (1 ea.)

Antenna Mounts

PE P/N	RF Frequency Range (MHz)	VSWR	Gain Nominal	Polarization
PE51AK1004 	800 - 900	1.2:1		
PE51GPS1001 	1,575 - 1,615	2:1	3 dB	RHCP
PE51GPS1002 	1,575 - 1,615	2:1	28 dB	RHCP
PE51GPS1003 	1,575 - 1,615	2:1	28 dB	RHCP
PE51GPS1000 	1,575.42+/-3	2:1	3 dB	RHCP

Waveguide Antennas

Waveguide Antennas with Coax Adapters

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	Connector	ECCN
PE9850B/2F-10 	WR-28	26.5 - 40	10	WR-28	2.92mm Female	EAR99
PE9850B/2F-15 	WR-28	26.5 - 40	15	WR-28	2.92mm Female	EAR99

Waveguide Antennas with Coax Adapters Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	Connector	ECCN
PE9850B/2F-20 	WR-28	26.5 - 40	20	WR-28	2.92mm Female	EAR99
PE9851B/2F-10 	WR-34	22 - 33	10	WR-34	2.92mm Female	EAR99
PE9851B/2F-15 	WR-34	22 - 33	15	WR-34	2.92mm Female	EAR99
PE9851B/2F-20 	WR-34	22 - 33	20	WR-34	2.92mm Female	EAR99
PE9852B/2F-10 	WR-42	18 - 26.5	10	WR-42	2.92mm Female	EAR99
PE9852B/2F-15 	WR-42	18 - 26.5	15	WR-42	2.92mm Female	EAR99
PE9852B/2F-20 	WR-42	18 - 26.5	20	WR-42	2.92mm Female	EAR99
PE9853B/SF-10 	WR-51	15 - 22	10	WR-51	SMA Female	EAR99
PE9853B/SF-15 	WR-51	15 - 22	15	WR-51	SMA Female	EAR99
PE9853B/SF-20 	WR-51	15 - 22	20	WR-51	SMA Female	EAR99
PE9854B/NF-10 	WR-62	12.4 - 18	10	WR-62	N Female	EAR99
PE9854B/SF-10 	WR-62	12.4 - 18	10	WR-62	SMA Female	EAR99
PE9854B/NF-15 	WR-62	12.4 - 18	15	WR-62	N Female	EAR99
PE9854B/SF-15 	WR-62	12.4 - 18	15	WR-62	SMA Female	EAR99
PE9854B/NF-20 	WR-62	12.4 - 18	20	WR-62	N Female	EAR99
PE9854B/SF-20 	WR-62	12.4 - 18	20	WR-62	SMA Female	EAR99

Waveguide Antennas with Coax Adapters Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	Connector	ECCN
PE9855B/NF-10 	WR-75	10 - 15	10	WR-75	N Female	EAR99
PE9855B/SF-10 	WR-75	10 - 15	10	WR-75	SMA Female	EAR99
PE9855B/NF-15 	WR-75	10 - 15	15	WR-75	N Female	EAR99
PE9855B/SF-15 	WR-75	10 - 15	15	WR-75	SMA Female	EAR99
PE9855B/NF-20 	WR-75	10 - 15	20	WR-75	N Female	EAR99
PE9855B/SF-20 	WR-75	10 - 15	20	WR-75	SMA Female	EAR99
PE9856B/NF-10 	WR-90	8.2 - 12.4	10	WR-90	N Female	EAR99
PE9856B/SF-10 	WR-90	8.2 - 12.4	10	WR-90	SMA Female	EAR99
PE9856B/NF-15 	WR-90	8.2 - 12.4	15	WR-90	N Female	EAR99
PE9856B/SF-15 	WR-90	8.2 - 12.4	15	WR-90	SMA Female	EAR99
PE9856B/NF-20 	WR-90	8.2 - 12.4	20	WR-90	N Female	EAR99
PE9856B/SF-20 	WR-90	8.2 - 12.4	20	WR-90	SMA Female	EAR99
PE9857B/NF-10 	WR-102	7 - 11	10	WR-102	N Female	EAR99
PE9857B/SF-10 	WR-102	7 - 11	10	WR-102	SMA Female	EAR99
PE9857B/NF-15 	WR-102	7 - 11	15	WR-102	N Female	EAR99
PE9857B/SF-15 	WR-102	7 - 11	15	WR-102	SMA Female	EAR99

Waveguide Antennas with Coax Adapters Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	Connector	ECCN
PE9857B/NF-20 	WR-102	7 - 11	20	WR-102	N Female	EAR99
PE9857B/SF-20 	WR-102	7 - 11	20	WR-102	SMA Female	EAR99
PE9858B/NF-10 	WR-112	7.05 - 10	10	WR-112	N Female	EAR99
PE9858B/SF-10 	WR-112	7.05 - 10	10	WR-112	SMA Female	EAR99
PE9858B/NF-15 	WR-112	7.05 - 10	15	WR-112	N Female	EAR99
PE9858B/SF-15 	WR-112	7.05 - 10	15	WR-112	SMA Female	EAR99
PE9858B/NF-20 	WR-112	7.05 - 10	20	WR-112	N Female	EAR99
PE9858B/SF-20 	WR-112	7.05 - 10	20	WR-112	SMA Female	EAR99
PE9859B/NF-10 	WR-137	5.85 - 8.2	10	WR-137	N Female	EAR99
PE9859B/SF-10 	WR-137	5.85 - 8.2	10	WR-137	SMA Female	EAR99
PE9859B/NF-15 	WR-137	5.85 - 8.2	15	WR-137	N Female	EAR99
PE9859B/SF-15 	WR-137	5.85 - 8.2	15	WR-137	SMA Female	EAR99
PE9859B/NF-20 	WR-137	5.85 - 8.2	20	WR-137	N Female	EAR99
PE9859B/SF-20 	WR-137	5.85 - 8.2	20	WR-137	SMA Female	EAR99
PE9860B/NF-10 	WR-159	4.9 - 7.05	10	WR-159	N Female	EAR99
PE9860B/SF-10 	WR-159	4.9 - 7.05	10	WR-159	SMA Female	EAR99

Waveguide Antennas with Coax Adapters Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	Connector	ECCN
PE9860B/NF-15 	WR-159	4.9 - 7.05	15	WR-159	N Female	EAR99
PE9860B/SF-15 	WR-159	4.9 - 7.05	15	WR-159	SMA Female	EAR99
PE9860B/NF-20 	WR-159	4.9 - 7.05	20	WR-159	N Female	EAR99
PE9860B/SF-20 	WR-159	4.9 - 7.05	20	WR-159	SMA Female	EAR99
PE9861B/NF-10 	WR-187	3.95 - 5.85	10	WR-187	N Female	EAR99
PE9861B/SF-10 	WR-187	3.95 - 5.85	10	WR-187	SMA Female	EAR99
PE9861B/NF-15 	WR-187	3.95 - 5.85	15	WR-187	N Female	EAR99
PE9861B/SF-15 	WR-187	3.95 - 5.85	15	WR-187	SMA Female	EAR99
PE9861B/NF-20 	WR-187	3.95 - 5.85	20	WR-187	N Female	EAR99
PE9861B/SF-20 	WR-187	3.95 - 5.85	20	WR-187	SMA Female	EAR99
PE9862B/NF-10 	WR-229	3.3 - 4.9	10	WR-229	N Female	EAR99
PE9862B/SF-10 	WR-229	3.3 - 4.9	10	WR-229	SMA Female	EAR99
PE9862B/NF-15 	WR-229	3.3 - 4.9	15	WR-229	N Female	EAR99
PE9862B/SF-15 	WR-229	3.3 - 4.9	15	WR-229	SMA Female	EAR99
PE9862B/NF-20 	WR-229	3.3 - 4.9	20	WR-229	N Female	EAR99
PE9862B/SF-20 	WR-229	3.3 - 4.9	20	WR-229	SMA Female	EAR99

Waveguide Antennas with Coax Adapters Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	Connector	ECCN
PE9863B/NF-10 	WR-284	2.6 - 3.95	10	WR-284	N Female	EAR99
PE9863B/SF-10 	WR-284	2.6 - 3.95	10	WR-284	SMA Female	EAR99
PE9863B/NF-15 	WR-284	2.6 - 3.95	15	WR-284	N Female	EAR99
PE9863B/SF-15 	WR-284	2.6 - 3.95	15	WR-284	SMA Female	EAR99
PE9863B/NF-20 	WR-284	2.6 - 3.95	20	WR-284	N Female	EAR99
PE9863B/SF-20 	WR-284	2.6 - 3.95	20	WR-284	SMA Female	EAR99
PE9864B/NF-15 	WR-430	1.7 - 2.6	15	WR-430	N Female	EAR99
PE9864B/SF-15 	WR-430	1.7 - 2.6	15	WR-430	SMA Female	EAR99
PE9864B/NF-20 	WR-430	1.7 - 2.6	20	WR-430	N Female	EAR99
PE9864B/SF-20 	WR-430	1.7 - 2.6	20	WR-430	SMA Female	EAR99
PE9864B/NF-10 	WR-430	1.7 - 2.6	10	WR-430	N Female	EAR99
PE9864B/SF-10 	WR-430	1.7 - 2.6	10	WR-430	SMA Female	EAR99

Standard Gain Horns

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1029 	WR-5	140 - 220	10	Round Cover UG-387/U-Mod	EAR99
PEWAN1030 	WR-5	140 - 220	15	Round Cover UG-387/U-Mod	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1031 	WR-5	140 - 220	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1032 	WR-5	140 - 220	25	Round Cover UG-387/U-Mod	EAR99
PEWAN1025 	WR-6	110 - 170	10	Round Cover UG-387/U-Mod	EAR99
PEWAN1026 	WR-6	110 - 170	15	Round Cover UG-387/U-Mod	EAR99
PEWAN1027 	WR-6	110 - 170	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1028 	WR-6	110 - 170	25	Round Cover UG-387/U-Mod	EAR99
PEWAN1021 	WR-8	90 - 140	10	Round Cover UG-387/U-Mod	EAR99
PEWAN1022 	WR-8	90 - 140	15	Round Cover UG-387/U-Mod	EAR99
PEWAN1023 	WR-8	90 - 140	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1024 	WR-8	90 - 140	25	Round Cover UG-387/U-Mod	EAR99
PEWAN1017 	WR-10	75 - 110	10	Round Cover UG-387/U-Mod	EAR99
PEWAN1018 	WR-10	75 - 110	15	Round Cover UG-387/U-Mod	EAR99
PEWAN1019 	WR-10	75 - 110	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1020 	WR-10	75 - 110	25	Round Cover UG-387/U-Mod	EAR99
PEWAN1013 	WR-12	60 - 90	10	Round Cover UG-387/U-Mod	EAR99
PEWAN1014 	WR-12	60 - 90	15	Round Cover UG-387/U-Mod	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1015 	WR-12	60 - 90	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1016 	WR-12	60 - 90	25	Round Cover UG-387/U	EAR99
PEWAN1009 	WR-15	50 - 75	10	Round Cover UG-385/U-Mod	EAR99
PEWAN1010 	WR-15	50 - 75	15	Round Cover UG-385/U-Mod	EAR99
PEWAN1011 	WR-15	50 - 75	20	Round Cover UG-385/U-Mod	EAR99
PE9881-24 	WR-15	50 - 75	24	Round Cover UG-385/U	EAR99
PEWAN1012 	WR-15	50 - 75	25	Round Cover UG-385/U-Mod	EAR99
PEWAN1005 	WR-19	40 - 60	10	Round Cover UG-383/U-Mod	EAR99
PEWAN1006 	WR-19	40 - 60	15	Round Cover UG-383/U-Mod	EAR99
PEWAN1007 	WR-19	40 - 60	20	Round Cover UG-383/U-Mod	EAR99
PEWAN1008 	WR-19	40 - 60	25	Round Cover UG-383/U-Mod	EAR99
PE9850B-10 	WR-28	26.5 - 40	10	Square Cover UG-599/U	EAR99
PEWAN028-10 	WR-28	26.5 - 40	10	Square Cover UG-599/U	EAR99
PE9850-15 	WR-28	26.5 - 40	15	Square Cover UG-599/U	EAR99
PE9850B-15 	WR-28	26.5 - 40	15	Square Cover UG-599/U	EAR99
PEWAN028-15 	WR-28	26.5 - 40	15	Square Cover UG-599/U	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9850B-20 	WR-28	26.5 - 40	20	Square Cover UG-599/U	EAR99
PEWAN028-20 	WR-28	26.5 - 40	20	Square Cover UG-599/U	EAR99
PE9851B-10 	WR-34	22 - 33	10	Square Cover UG-1530/U	EAR99
PEWAN034-10 	WR-34	22 - 33	10	Square Cover UG-1530/U	EAR99
PE9851B-15 	WR-34	22 - 33	15	Square Cover UG-1530/U	EAR99
PEWAN034-15 	WR-34	22 - 33	15	Square Cover UG-1530/U	EAR99
PE9851B-20 	WR-34	22 - 33	20	Square Cover UG-1530/U	EAR99
PEWAN034-20 	WR-34	22 - 33	20	Square Cover UG-1530/U	EAR99
PE9852B-10 	WR-42	18 - 26.5	10	Square Cover UG-597/U	EAR99
PEWAN042-10 	WR-42	18 - 26.5	10	Square Cover UG-597/U	EAR99
PE9852B-15 	WR-42	18 - 26.5	15	Square Cover UG-597/U	EAR99
PEWAN042-15 	WR-42	18 - 26.5	15	Square Cover UG-597/U	EAR99
PE9852B-20 	WR-42	18 - 26.5	20	Square Cover UG-597/U	EAR99
PEWAN042-20 	WR-42	18 - 26.5	20	Square Cover UG-597/U	EAR99
PE9853B-10 	WR-51	15 - 22	10	Square Cover	EAR99
PEWAN051-10 	WR-51	15 - 22	10	Square Cover	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9853B-15 	WR-51	15 - 22	15	Square Cover	EAR99
PEWAN051-15 	WR-51	15 - 22	15	Square Cover	EAR99
PE9853B-20 	WR-51	15 - 22	20	Square Cover	EAR99
PEWAN051-20 	WR-51	15 - 22	20	Square Cover	EAR99
PE9854B-10 	WR-62	12.4 - 18	10	Square Cover UG-1665/U	EAR99
PEWAN062-10 	WR-62	12.4 - 18	10	Square Cover	EAR99
PE9854B-15 	WR-62	12.4 - 18	15	Square Cover	EAR99
PEWAN062-15 	WR-62	12.4 - 18	15	Square Cover	EAR99
PE9854B-20 	WR-62	12.4 - 18	20	Square Cover	EAR99
PEWAN062-20 	WR-62	12.4 - 18	20	Square Cover	EAR99
PE9855B-10 	WR-75	10 - 15	10	Square Cover	EAR99
PEWAN075-10 	WR-75	10 - 15	10	Square Cover	EAR99
PE9855B-15 	WR-75	10 - 15	15	Square Cover	EAR99
PEWAN075-15 	WR-75	10 - 15	15	Square Cover	EAR99
PE9855B-20 	WR-75	10 - 15	20	Square Cover	EAR99
PEWAN075-20 	WR-75	10 - 15	20	Square Cover	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9856B-10 	WR-90	8.2 - 12.4	10	Square Cover UG-135/U	EAR99
PEWAN090-10 	WR-90	8.2 - 12.4	10	Square Cover UG-135/U	EAR99
PE9856B-15 	WR-90	8.2 - 12.4	15	Square Cover UG-135/U	EAR99
PEWAN090-15 	WR-90	8.2 - 12.4	15	Square Cover UG-135/U	EAR99
PE9856B-20 	WR-90	8.2 - 12.4	20	Square Cover UG-135/U	EAR99
PEWAN090-20 	WR-90	8.2 - 12.4	20	Square Cover UG-135/U	EAR99
PE9858B-10 	WR-112	7.05 - 10	10	Square Cover	EAR99
PEWAN112-10 	WR-112	7.05 - 10	10	Square Cover	EAR99
PE9858B-15 	WR-112	7.05 - 10	15	Square Cover UG-138/U	EAR99
PEWAN112-15 	WR-112	7.05 - 10	15	Square Cover	EAR99
PE9858B-20 	WR-112	7.05 - 10	20	Square Cover	EAR99
PEWAN112-20 	WR-112	7.05 - 10	20	Square Cover	EAR99
PE9857B-10 	WR-102	7 - 11	10	Square Cover UG-1493/U	EAR99
PEWAN102-10 	WR-102	7 - 11	10	Square Cover	EAR99
PE9857B-15 	WR-102	7 - 11	15	Square Cover	EAR99
PEWAN102-15 	WR-102	7 - 11	15	Square Cover	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9857B-20 	WR-102	7 - 11	20	Square Cover UG-1493/U	EAR99
PEWAN102-20 	WR-102	7 - 11	20	Square Cover	EAR99
PE9859B-20 	WR-137	5.85 - 8.2	20	CMR-137F	EAR99
PE9859B-10 	WR-137	5.85 - 8.2	10	CMR-137	EAR99
PEWAN137-10 	WR-137	5.85 - 8.2	10	CMR-137	EAR99
PE9859B-15 	WR-137	5.85 - 8.2	15	CMR-137	EAR99
PEWAN137-15 	WR-137	5.85 - 8.2	15	CMR-137	EAR99
PEWAN137-20 	WR-137	5.85 - 8.2	20	CMR-137	EAR99
PE9860B-10 	WR-159	4.9 - 7.05	10	CMR-159	EAR99
PEWAN159-10 	WR-159	4.9 - 7.05	10	CMR-159	EAR99
PE9860B-15 	WR-159	4.9 - 7.05	15	CMR-159	EAR99
PEWAN159-15 	WR-159	4.9 - 7.05	15	Square Cover UG-1731/U	EAR99
PE9860B-20 	WR-159	4.9 - 7.05	20	CMR-159	EAR99
PEWAN159-20 	WR-159	4.9 - 7.05	20	CMR-159	EAR99
PE9861B-10 	WR-187	3.95 - 5.85	10	CMR-187	EAR99
PEWAN187-10 	WR-187	3.95 - 5.85	10	CMR-187	EAR99

Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9861B-15 	WR-187	3.95 - 5.85	15	CMR-187	EAR99
PEWAN187-15 	WR-187	3.95 - 5.85	15	CMR-187	EAR99
PE9861B-20 	WR-187	3.95 - 5.85	20	CMR-187	EAR99
PEWAN187-20 	WR-187	3.95 - 5.85	20	CMR-187	EAR99
PE9862B-10 	WR-229	3.3 - 4.9	10	CMR-229	EAR99
PEWAN229-10 	WR-229	3.3 - 4.9	10	CMR-229	EAR99
PE9862B-15 	WR-229	3.3 - 4.9	15	CMR-229	EAR99
PEWAN229-15 	WR-229	3.3 - 4.9	15	CMR-229	EAR99
PE9862B-20 	WR-229	3.3 - 4.9	20	CMR-229	EAR99
PEWAN229-20 	WR-229	3.3 - 4.9	20	CMR-229	EAR99
PE9863B-10 	WR-284	2.6 - 3.95	10	CMR-284	EAR99
PE9863B-10-U 	WR-284	2.6 - 3.95	10	Round Cover UG-584/U	
PEWAN284-10 	WR-284	2.6 - 3.95	10	CMR-284	EAR99
PE9863B-15 	WR-284	2.6 - 3.95	15	CMR-284	EAR99
PE9863B-15-U 	WR-284	2.6 - 3.95	15	Round Cover UG-584/U	EAR99
PEWAN284-15 	WR-284	2.6 - 3.95	15	CMR-284	EAR99

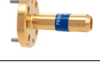
Standard Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9863B-20 	WR-284	2.6 - 3.95	20	CMR-284	EAR99
PE9863B-20-U 	WR-284	2.6 - 3.95	20	Round Cover UG-584/U	EAR99
PEWAN284-20 	WR-284	2.6 - 3.95	20	CMR-284	EAR99
PE9864B-10 	WR-430	1.7 - 2.6	10	CPR-430F	EAR99
PEWAN430-10 	WR-430	1.7 - 2.6	10	CPR-430F	EAR99
PE9864B-15 	WR-430	1.7 - 2.6	15	CPR-430F	EAR99
PEWAN430-15 	WR-430	1.7 - 2.6	15	CPR-430F	EAR99
PE9864B-20 	WR-430	1.7 - 2.6	20	CPR-430F	EAR99
PEWAN430-20 	WR-430	1.7 - 2.6	20	CPR-430F	EAR99

Conical Gain Horns

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1065 	WR-5	140 - 220	10	Round Cover UG-387/U	EAR99
PEWAN1066 	WR-5	140 - 220	15	Round Cover UG-387/U	EAR99
PEWAN1067 	WR-5	140 - 220	20	Round Cover UG-387/U	EAR99
PEWAN1068 	WR-5	140 - 220	25	Round Cover UG-387/U	EAR99
PEWAN1061 	WR-6	100 - 112	10	Round Cover UG-387/U-Mod	EAR99

Conical Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1062 	WR-6	100 - 112	15	Round Cover UG-387/U-Mod	EAR99
PEWAN1063 	WR-6	100 - 112	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1064 	WR-6	100 - 112	25	Round Cover UG-387/U-Mod	EAR99
PEWAN1057 	WR-8	100 - 112	10	Round Cover UG-387/U-Mod	EAR99
PEWAN1058 	WR-8	100 - 112	15	Round Cover UG-387/U-Mod	EAR99
PEWAN1059 	WR-8	100 - 112	20	Round Cover UG-387/U-Mod	EAR99
PEWAN1060 	WR-8	100 - 112	25	Round Cover UG-387/U-Mod	EAR99
PEWAN1049 	WR-10	87 - 100	10	Round Cover UG-387/U	EAR99
PEWAN1050 	WR-10	87 - 100	15	Round Cover UG-387/U	EAR99
PEWAN1051 	WR-10	87 - 100	20	Round Cover UG-387/U	EAR99
PEWAN1052 	WR-10	87 - 100	25	Round Cover UG-387/U	EAR99
PEWAN1053 	WR-10	77 - 87	10	Round Cover UG-387/U	EAR99
PEWAN1054 	WR-10	77 - 87	15	Round Cover UG-387/U	EAR99
PEWAN1055 	WR-10	77 - 87	20	Round Cover UG-387/U	EAR99
PEWAN1056 	WR-10	77 - 87	25	Round Cover UG-387/U	EAR99
PEWAN1045 	WR-12	77 - 87	10	Round Cover UG-387/U	EAR99

Conical Gain Horns Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1046 	WR-12	77 - 87	15	Round Cover UG-387/U	EAR99
PEWAN1047 	WR-12	77 - 87	20	Round Cover UG-387/U	EAR99
PEWAN1048 	WR-12	77 - 87	25	Round Cover UG-387/U	EAR99
PEWAN1041 	WR-12	68 - 77	10	Round Cover UG-387/U	EAR99
PEWAN1042 	WR-12	68 - 77	15	Round Cover UG-387/U	EAR99
PEWAN1043 	WR-12	68 - 77	20	Round Cover UG-387/U	EAR99
PEWAN1044 	WR-12	68 - 77	25	Round Cover UG-387/U	EAR99
PEWAN1037 	WR-15	58 - 68	10	Round Cover UG-385/U	EAR99
PEWAN1038 	WR-15	58 - 68	15	Round Cover UG-385/U	EAR99
PEWAN1039 	WR-15	58 - 68	20	Round Cover UG-385/U	EAR99
PEWAN1040 	WR-15	58 - 68	25	Round Cover UG-385/U	EAR99
PEWAN1033 	WR-19	50 - 58	10	Round Cover UG-383/U-Mod	EAR99
PEWAN1034 	WR-19	50 - 58	15	Round Cover UG-383/U-Mod	EAR99
PEWAN1035 	WR-19	50 - 58	20	Round Cover UG-383/U-Mod	EAR99
PEWAN1036 	WR-19	50 - 58	25	Round Cover UG-383/U-Mod	EAR99

Wide Angle Scalar Feed Horns

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1109 		100 - 112	17	Round Cover UG-387/U-Mod	EAR99
PEWAN1073 	WR-10	89 - 99	10	Round Cover UG-385/U-Mod	EAR99
PEWAN1074 	WR-10	89 - 99	10	Round Cover UG-385/U-Mod	EAR99
PEWAN1123 		87 - 100	17	UG-387/U-Mod	EAR99
PEWAN1122 		77 - 87	17	UG-387/U-Mod	EAR99
PEWAN1071 	WR-12	72 - 82	10	Round Cover UG-385/U	EAR99
PEWAN1072 	WR-12	72 - 82	10	Round Cover UG-385/U	EAR99
PEWAN1120 		68 - 77	17	UG-387/U-Mod	EAR99
PEWAN1118 		58 - 68	17	UG-385/U-Mod	EAR99
PEWAN1069 	WR-15	55 - 65	10	Round Cover UG-385/U	EAR99
PEWAN1070 	WR-15	55 - 65	10	Round Cover UG-385/U	EAR99
PEWAN1115 		33 - 38.5	17	UG-599/U	EAR99
PEWAN1114 		26 - 33	17	UG-599/U	EAR99
PEWAN1113 	WR-28	26 - 30	17	UG-599/U	EAR99
PEWAN1110 		24 - 33	16	Square Cover UG-1530/U	EAR99

Lens Gain Horns

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1083 	WR-10	89 - 99	34	Round Cover UG-387/U	EAR99
PEWAN1085 	WR-10	89 - 99	34	Round Cover UG-387/U	EAR99
PEWAN1084 	WR-10	89 - 99	40	Round Cover UG-387/U	EAR99
PEWAN1086 	WR-10	89 - 99	40	Round Cover UG-387/U	EAR99
PEWAN1101 	WR-10	88 - 100	40	Round Cover UG-387/U-Mod	EAR99
PEWAN1102 		88 - 100	48	Square Cover UG-387/U-Mod	EAR99
PEWAN1079 	WR-12	72 - 82	32	Round Cover UG-387/U	EAR99
PEWAN1081 	WR-12	72 - 82	32	Round Cover UG-387/U	EAR99
PEWAN1080 	WR-12	72 - 82	37	Round Cover UG-387/U	EAR99
PEWAN1082 	WR-12	72 - 82	37	Round Cover UG-387/U	EAR99
PEWAN1075 	WR-15	55 - 65	32	Round Cover UG-385/U	EAR99
PEWAN1077 	WR-15	55 - 65	32	Round Cover UG-385/U	EAR99
PEWAN1076 	WR-15	55 - 65	37	Round Cover UG-385/U	EAR99
PEWAN1078 	WR-15	55 - 65	37	Round Cover UG-385/U	EAR99

Omni Directional

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1135 	WR-10	90 - 100	0	Round Cover UG-387/U-Mod	EAR99
PEWAN1136 	WR-10	90 - 100	6.5	Square Cover UG-387/U-Mod	EAR99
PEWAN1089 	WR-10	89 - 99	2	Round Cover UG-387/U	EAR99
PEWAN1088 	WR-12	75 - 79	2	Round Cover UG-387/U	EAR99
PEWAN1134 	WR-12	71 - 86	2	Round Cover UG-387/U	EAR99
PEWAN1087 	WR-15	58 - 62	3.5	Round Cover UG-385/U	EAR99
PEWAN1133 	WR-28	26.5 - 40	7.5	Square Cover UG-599/U	EAR99

Probe Waveguide Antennas

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1124 	WR-6	110 - 170	6.5	Round Cover UG-387/U-Mod	EAR99
PEWAN1125 	WR-8	90 - 140	6.5	Round Cover UG-387/U-Mod	EAR99
PEWAN1126 	WR-10	75 - 110	6.5	Round Cover UG-387/U-Mod	EAR99
PEWAN1127 	WR-12	60 - 90	6.5	Round Cover UG-387/U	EAR99
PEWAN1128 	WR-15	50 - 75	6.5	Round Cover UG-385/U	EAR99
PEWAN1129 	WR-19	40 - 60	6.5	Round Cover UG-383/U-Mod	EAR99

Probe Waveguide Antennas Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1130 	WR-22	33 - 50	6.5	Round Cover UG-383/U	EAR99
PEWAN1131 	WR-28	26.5 - 40	6.5	Square Cover UG-599/U	EAR99
PEWAN1132 	WR-34	22 - 33	6.5	Square Cover UG-1530/U	EAR99

Sector Waveguide Antennas

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1144 	WR-28	30 - 40	0	Square Cover UG-599/U-Mod	EAR99
PEWAN1143 	WR-28	27.5 - 29.5	6	Square Cover UG-599/U	EAR99

Dual Polarized Waveguide Antennas

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1121 	WR-10	75 - 110	13	UG-387/U-Mod	EAR99
PEWAN1137 	WR-10	75 - 110	15	Square Cover UG-387/U-Mod	EAR99
PEWAN1141 	WR-10	75 - 110	20	Square Cover UG-387/U-Mod	EAR99
PEWAN1119 	WR-12	60 - 90	13	UG-387/U	EAR99
PEWAN1138 	WR-12	60 - 90	15	Square Cover UG-387/U	EAR99
PEWAN1139 	WR-12	50 - 75	15	Square Cover UG-385/U	EAR99
PEWAN1117 	WR-15	50 - 75	13	UG-385/U-Mod	EAR99

Dual Polarized Waveguide Antennas Continued

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PEWAN1116 	WR-19	40 - 60	13	UG-383/U-Mod	EAR99
PEWAN1140 	WR-22	33 - 50	15	Square Cover UG-383/U	EAR99
PEWAN1142 	WR-28	24 - 42	10	Square Choke UG-599/U	EAR99
PEWAN1112 	WR-28	24 - 42	15	UG-599/U	EAR99
PEWAN1111 	WR-28	24 - 40	15	UG-599/U	EAR99

Specialty Waveguide Antennas

PE P/N	Waveguide Type	RF Frequency Range (GHz)	Gain (dB)	Flange Type	ECCN
PE9887-11 	Broadband	1 - 18	11 dBi	SMA Connectors	EAR99
PE9888-11 	Broadband	1 - 18	11 dBi	N Connectors	EAR99
PE9881-42 	WR-15	50 - 75	42	Round Cover	5A991
PE9881A-20 	WR-15	50 - 75	20	Round Cover	EAR99
PEW15A001 	WR-15	50 - 75	2 dBi	Round Cover	EAR99
PE9881-34 	WR-15	56.5 - 67	34 dBi	Round Cover	5A991

Waveguide Accessories

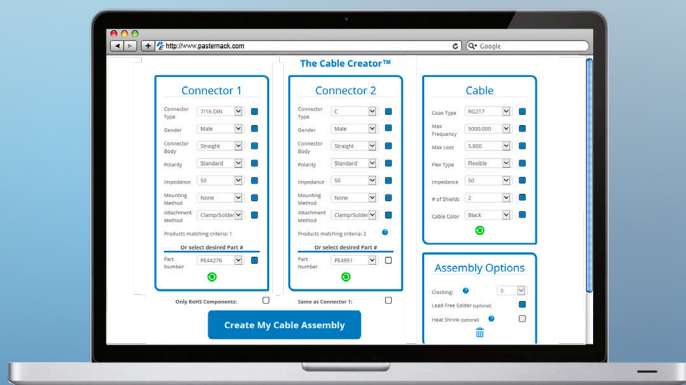
Corner Reflectors

PE P/N	Description
PEWRL0000 	1.4 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0001 	1.8 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0002 	2.4 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0003 	3.2 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0004 	4.3 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0005 	6 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0006 	8 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0007 	8.5 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0008 	8.9 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0009 	10 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0010 	13 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0011 	13.5 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0012 	16 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish
PEWRL0013 	24 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish

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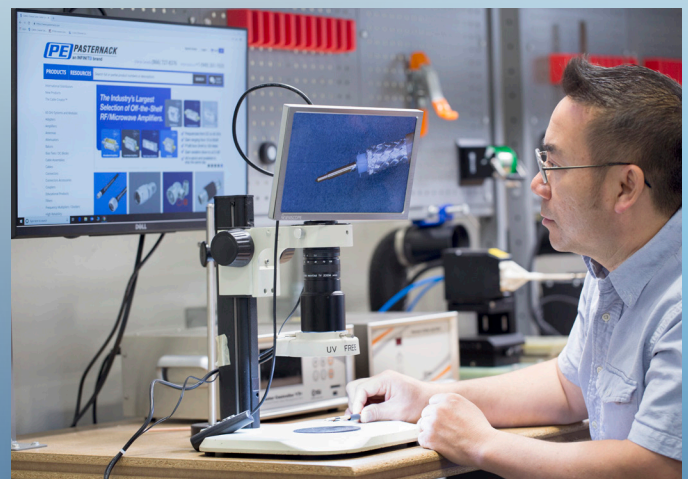
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