

VERO

HiPWR

High Power RF Cable Assembly

Features

- High power, Low loss
- High Stability

Typical Applications

- Semiconductor Testing
- High Power Radar
- High Power Device Testing



Cable Structure

VH990

Center conductor	Dielectric	Outer conductor	Outer shielding	Jacket	
7 Strand silver plated copper	PTFE	Silver plated copper	Silver plated copper	Light brown FEP	

VH1480

Center conductor	Dielectric	Outer conductor	Innerylayer	Outer shielding	Jacket
Copper	PTFE	Silver plated Ribbon	Kapton/Aluminum tape	Silver plated copper	Blue FEP

VH1480S

Center conductor	Dielectric	Outer conductor	Innerylayer	Outer shielding	Jacket
Stranded silver plated copper	PTFE	Silver plated flat wire	Aluminum laminate	Silver plated copper	Black PUR

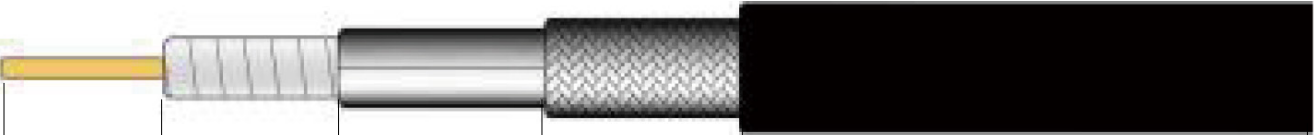
VH2150

				
Center conductor	Insulation	Outer conductor	Outer shielding	Jacket
Stranded copper conductor	PTFE	Tinned copper wire	Tinned copper wire	Black PUR

VH3050

				
Center conductor	Dielectric	Outer conductor	Outer shielding	Jacket
Stranded Copper	PTFE	Tinne copper wire	Tinne copper wire	Black TPV

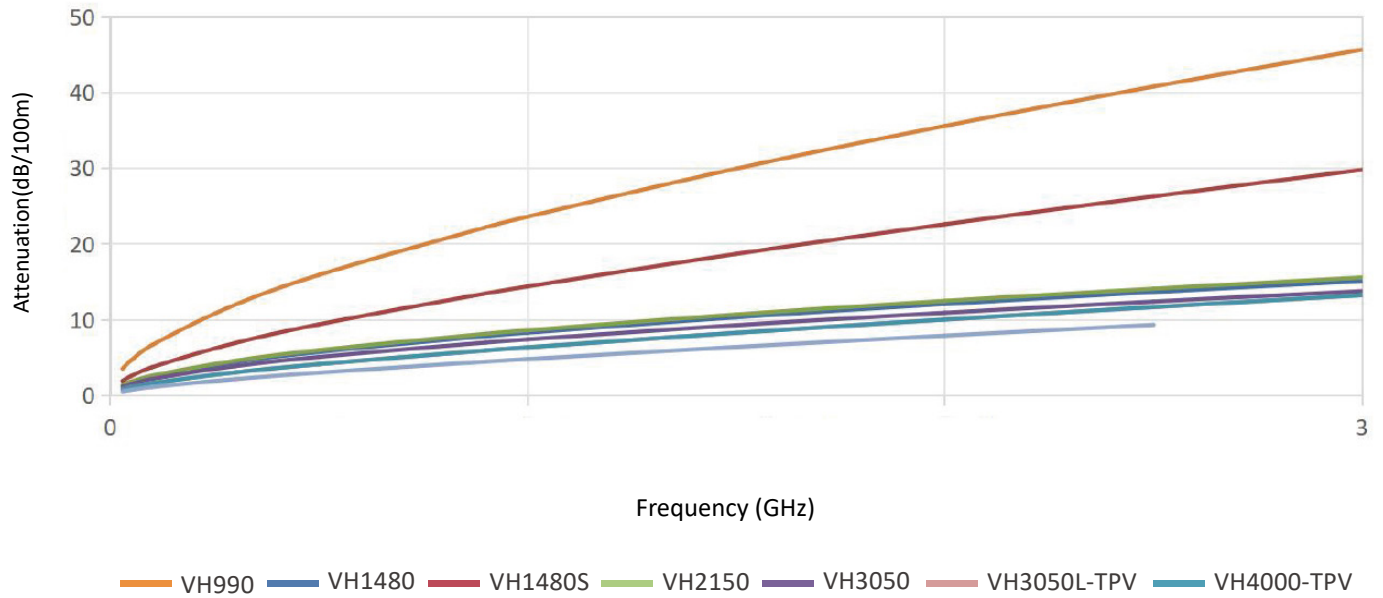
VH3050L-TPV

				
Center conductor	Dielectric	Outer conductor	Outer shielding	Jacket
Seamless copper tube	PTFE	Aluminum foil	Tinne copper wire	Black TPV

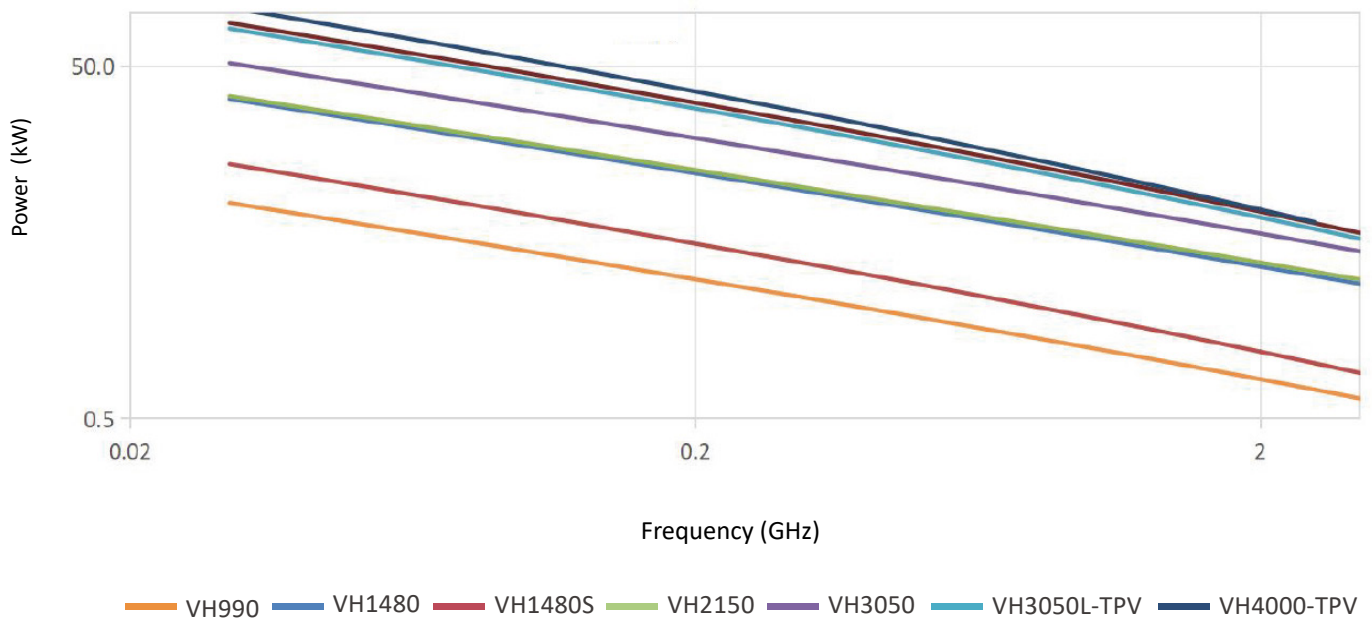
VH4000-TPV

				
Center conductor	Dielectric	Outer conductor	Outer shielding	Jacket
Bare copper tube	LD PTFE	Copper Foil	Tinne copper wire	Black TPV

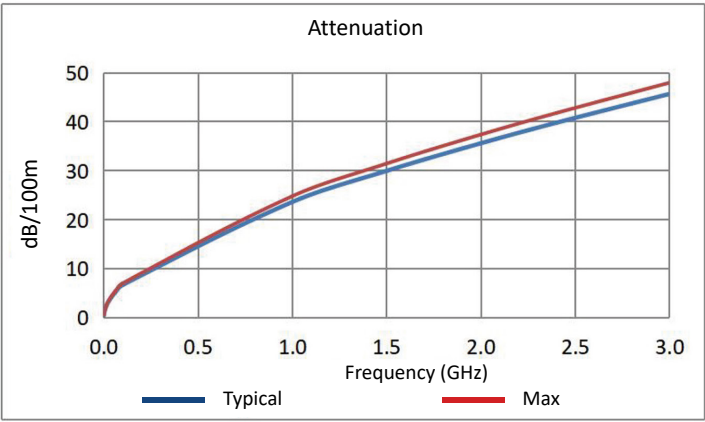
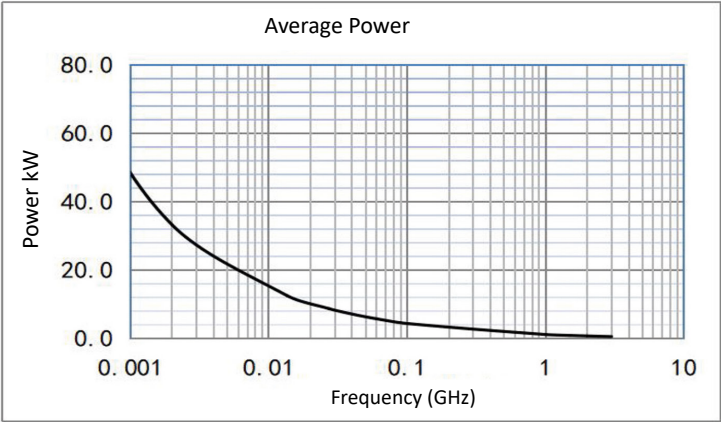
Attenuation & Frequency



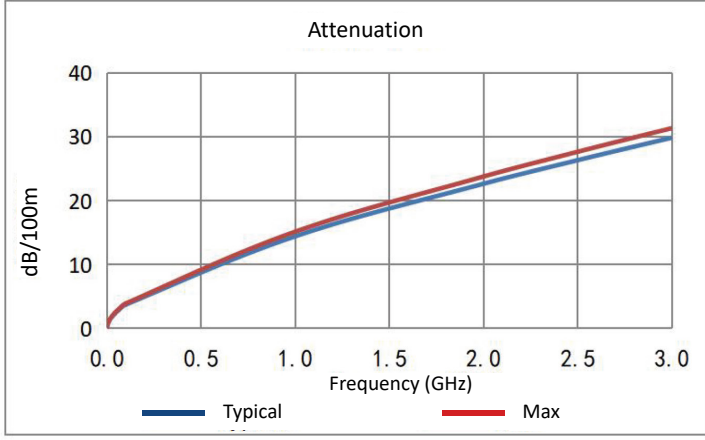
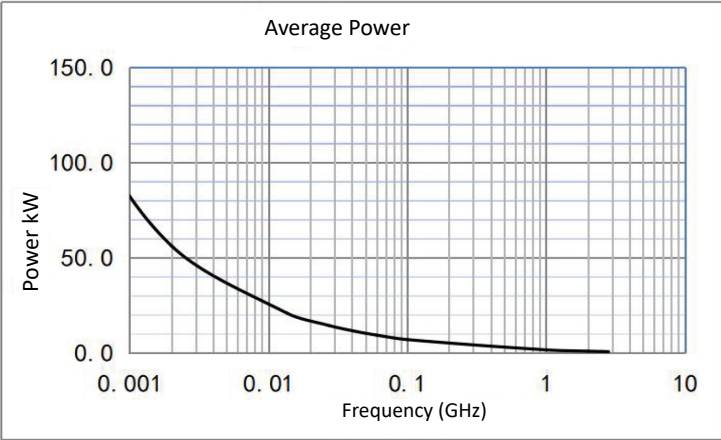
Average Power



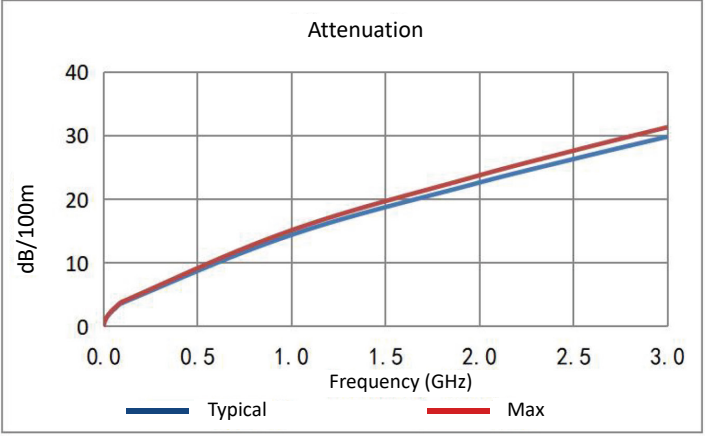
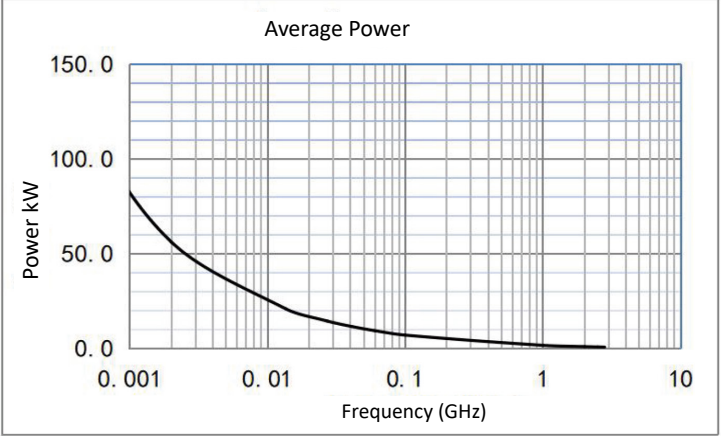
VH990



VH1480

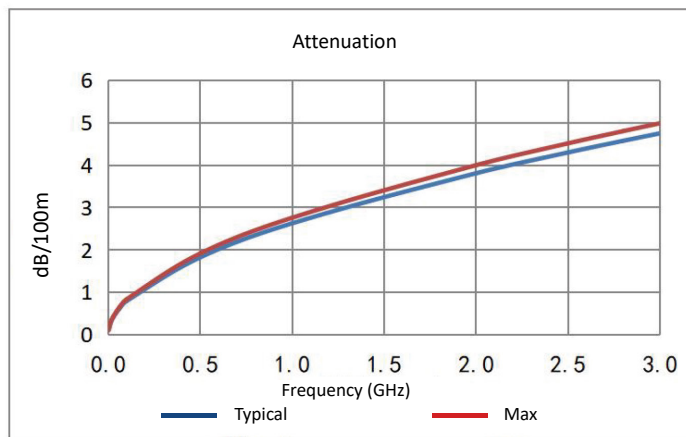
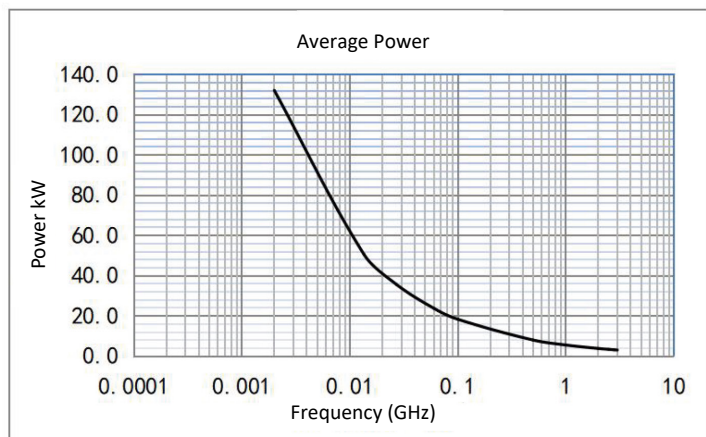


VH1480S

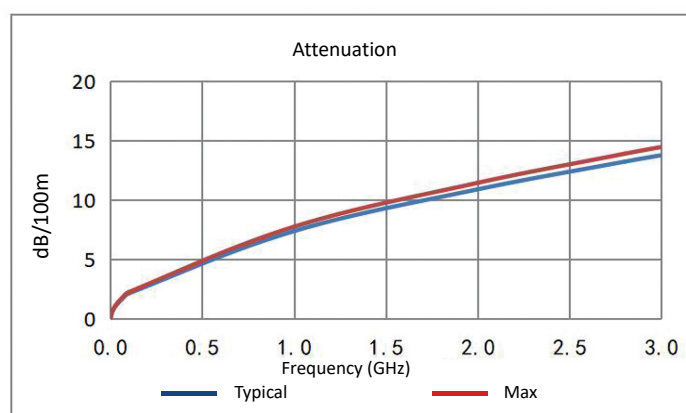
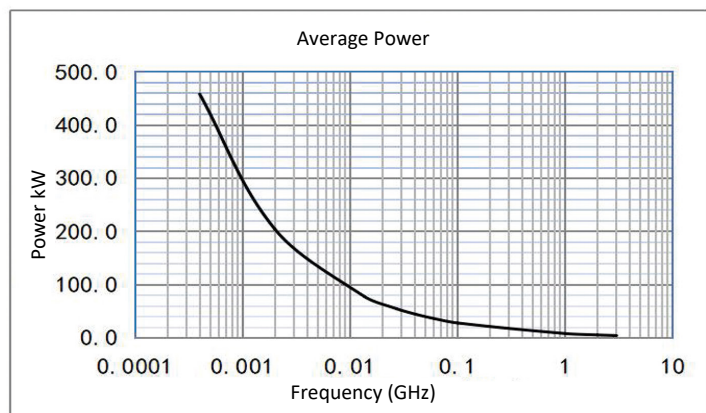


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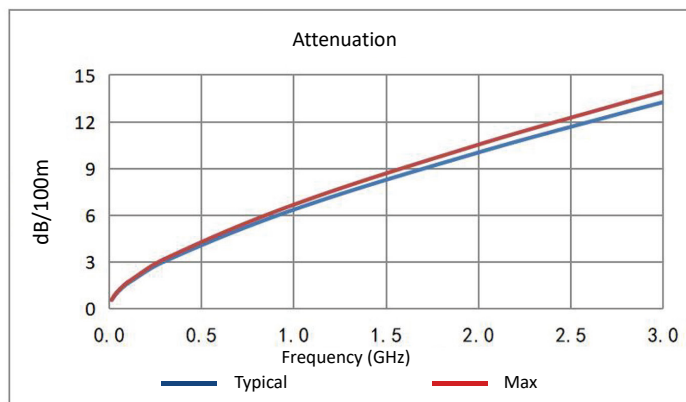
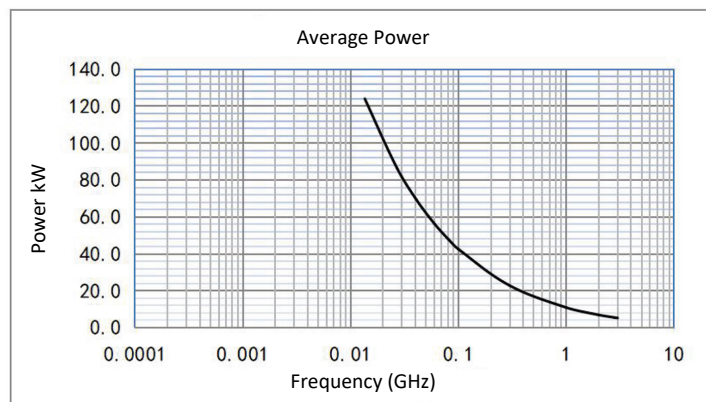
VH2150



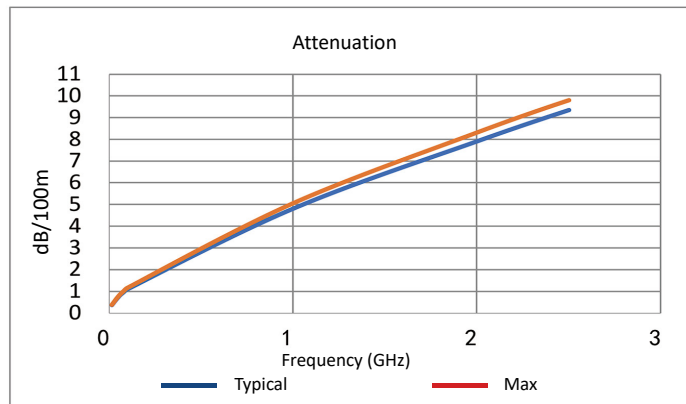
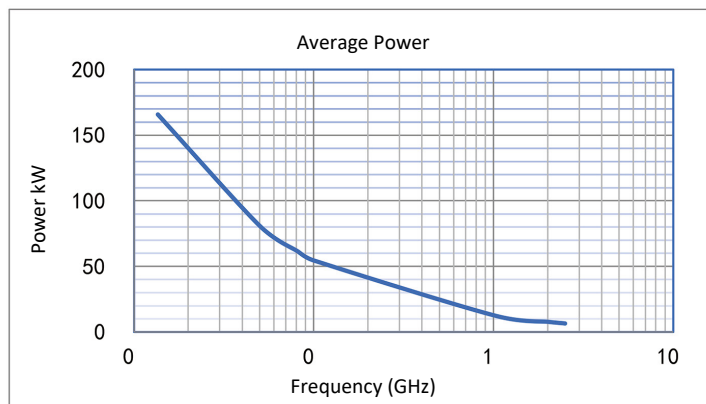
VH3050



VH3050L-TPV



VH4000 - TPV



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Specifications

Cable Type	VH990	VH1480	VH1480S	VH2150	VH3050	VH3050L-TPV	VH4000-TPV
Center Conductor	2.39	4	4.08	6	7.98	7.82	11.43
Dielectric	7.10	12	11.6	17	23.37	23.37	34.29
Outer conductor	7.79	12.4	12	18	24.54	23.48	34.44
Innerlayer	—	12.5	12.1	—	—	—	—
Outer shield	8.48	13.4	13	18.8	25.50	24.89	35.61
Jacket	9.90	14.8	14.6	21.5	30.50	30.48	40.60
Bend Radius:installation (mm)	50	74	73	108	230	152	203
Bend Radius:repeated (mm)	100	148	146	220	305	305	406
Weight (g/m)	260	475	420	900	1800	1210	2220
Temp, Operating&Installation (°C)	-55 to +200	-55 to -200	-55 to -105	-55 to +105	-55 to +105	-55 to +125	-55 to +125
Temp, Storage (°C)	-65 to +200	-65 to -200	-65 to -105	-65 to +105	-65 to +105	-55 to +125	-55 to +125
Operation Frequency (GHz)	3	3	3	3	3	3	2.5
Impedance (Ohms)	50	50	50	50	50	50	50
Velocity of Propagation	71%	76%	76%	76%	76%	76%	76%
Shielding Effectiveness (dB)	70	100	100	90	70	90	90
Voltage Withstand (V,DC)	5000	8000	5000	9450	9450	12500	20000

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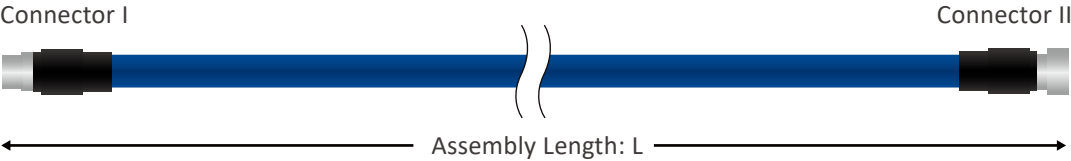
Attenuation (Typical @25°C & VSWR =1.1) & Power (VSWR = 1.1; 40°C; Sea Level)

Frequency (MHz)	VH990		VH1480		VH1480S		VH2150		VH3050		VH3050L-TPV		VH4000-TPV	
	Attenuation (dB/100m)	Average Powel (kW)	Attenuation (dB/100m)	Average Powel (kW)	Attenuation (dB/100m)	Average Powel (kW)	Attenuation (dB/100m)	Average Powel (kW)	Attenuation (dB/100m)	Average Powel (kW)	Attenuation (dB/100m)	Average Powel (kW)	Attenuation (dB/100m)	Average Powel (kW)
0.4	0.40	74.70	0.15	285.00	0.21	127.00	0.16	295.81	0.13	458.22	0.09	806.30	0.06	1023.914
2	0.90	33.25	0.35	127.22	0.48	56.30	0.36	132.08	0.30	204.36	0.21	357.24	0.13	450.824
13	2.36	12.60	0.91	48.59	1.28	21.08	0.95	50.49	0.79	77.86	0.56	133.60	0.37	165.700
27	3.37	8.83	1.29	34.23	1.85	14.66	1.35	35.59	1.12	54.77	0.81	92.83	0.53	113.878
40	4.16	7.16	1.58	27.87	2.29	11.82	1.66	28.99	1.38	44.54	1.00	74.80	0.67	91.020
60	5.09	5.85	1.93	22.88	2.82	9.59	2.02	23.81	1.68	36.50	1.23	60.66	0.83	73.143
100	6.65	4.47	2.50	17.63	3.73	7.26	2.62	18.36	2.19	28.05	1.63	45.85	1.11	54.496
1000	23.62	1.26	8.31	5.30	14.41	1.88	8.63	5.57	7.42	8.26	6.37	11.76	4.82	12.618
2000	35.62	0.84	12.09	3.64	22.63	1.20	12.50	3.84	10.93	5.61	10.04	7.46	7.91	7.677
3000	45.70	0.65	15.13	2.91	29.82	0.91	15.60	3.08	13.80	4.44	13.26	5.65	9.35	6.501

Calculate Attenuation = $K1 \cdot VFMHz + K2 \cdot FMHz$

	VH990	VH1480	VH1480S	VH2150	VH3050	VH3050L-TPV	VH4000-TPV
K1	0.6276120	0.2439765	0.3346979	0.2563420	0.2110943	0.1457530	0.0926330
K2	0.0037760	0.0005906	0.0038302	0.0005200	0.0007457	0.0017600	0.0018860

Selecting The Suitable Cable:
Part Number Construction



Cable Type-Length Conn (I)Conn (II) - N

VH990-01000 NNM 716M-N



Cable Type	Cable Code
VEROHiPWR @9.9mm Cable Diameter	VH990
VEROHiPWR @14.8mm Cable Diameter	VH1480
VEROHiPWR @14.6mm Cable Diameter	VH1480S
VEROHiPWR @21.5mm Cable Diameter	VH2150
VEROHiPWR @30.5mm Cable Diameter	VH3050
VEROHiPWR @30.48mm Cable Diameter	VH3050L-TPV
VEROHiPWR @40.6mm Cable Diameter	VH4000-TPV

Length Requirement	Length Code
1000mm	01000

Connector (I)	Connector Code
N Type (Male)	NNM

Connector (II)	Connector Code
7/16 DIN Male	716M

With Armor	No Armor
Not Applicable	N

Criteria for Connector Selection

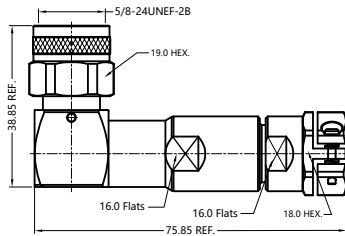
Connector Type	Connector Code			VH990	VH1480 VH1480S	VH2150	VH3050	VH3050 L-TPV	VH4000 -TPV
N Male	N	N	M	●	●				
N Male RA	A	N	M	●	●				
7/16 Male	7	16	M	●	●				
7/16 Male RA	A	7	M	●	●	●			
C Male	C	M	M	●					
C Male RA	A	C	M	●					
HN Male	H	N	M	●	●				
HN Male RA	A	H	M	●	●				
QRM Male	Q	R	M	●	●				
QRM Male RA	A	Q	M	●	●				
LC Male	C	L	M	●	●	●	●	●	
LC Male RA	A	L	M	●	●	●	●		
LC Female	C	L	F			●			
HPQD Male	H	P	M	●	●			●	
HPQD Male RA	A	P	M		●	●			
GQL Male	G	Q	M		●				
GQL Male RA	A	G	M		●				
EIA 1-5/8 Male	E	I	M		●	●		●	●
EIA 1-5/8 Male RA	A	E	M					●	●
13-30 Male	T	3	M		●	●			

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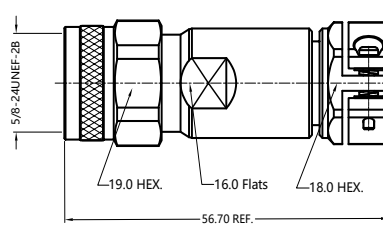
Available Standard Connectors

VH990

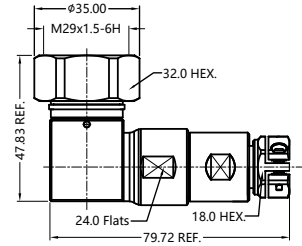
Type	N Male RA	Code	ANM
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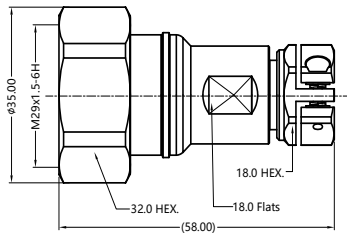
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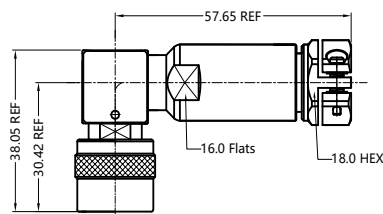
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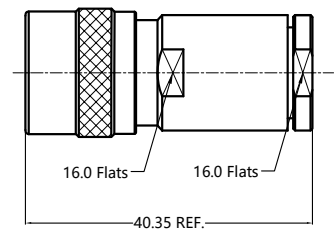
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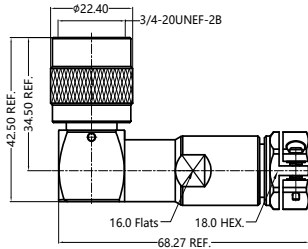
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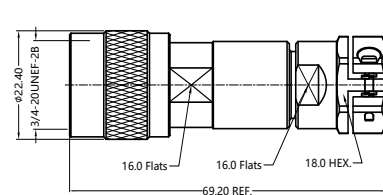
Type	C Male	Code	CMM
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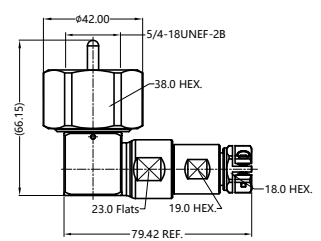
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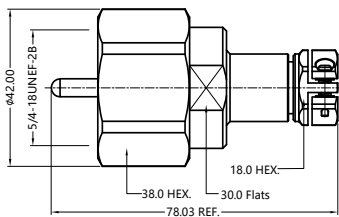
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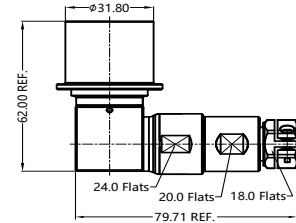
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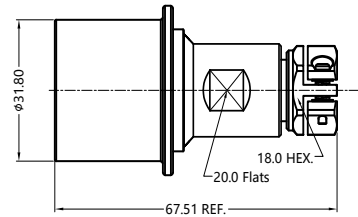
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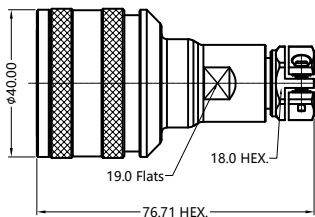
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Type	QRM Male	Code	QRM
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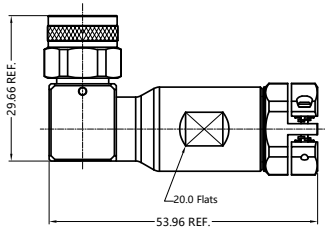


Type	HPQD Male	Code	HPM
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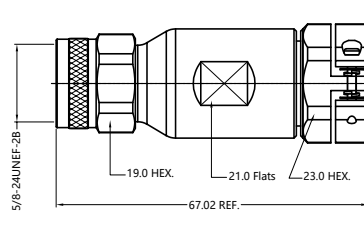


VH1480&VH1480S

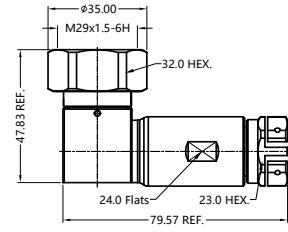
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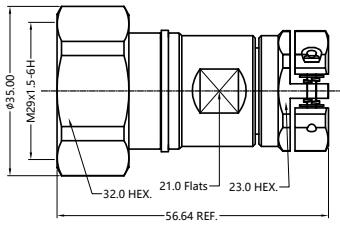
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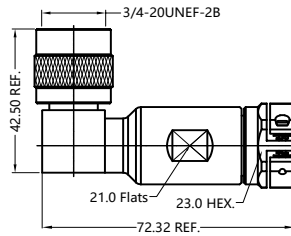
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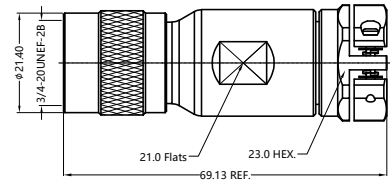
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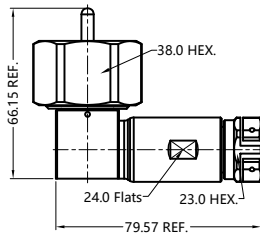
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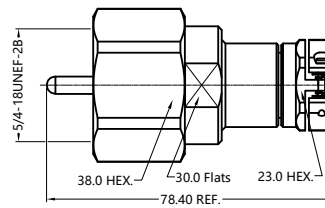
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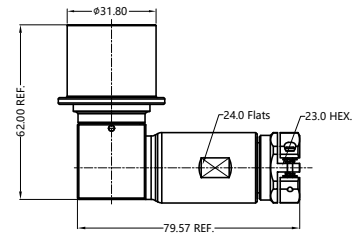
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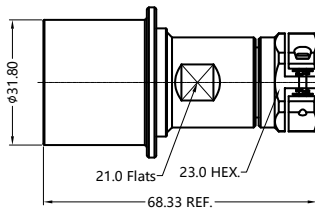
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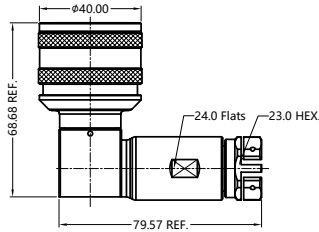
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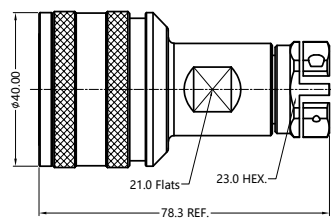
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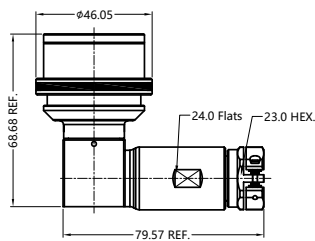
Type	HPQD Male RA	Code	APM
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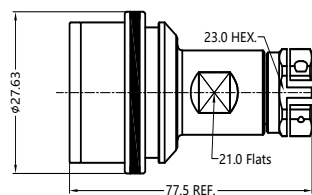
Type	HPQD Male	Code	HPM
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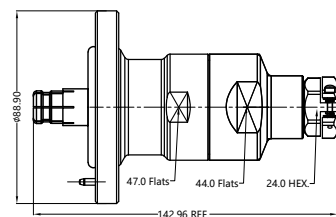
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Type	GQL Male	Code	GQM
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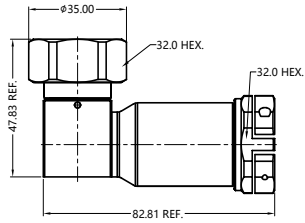


Type	EIA1-5/8 Male	Code	EIM
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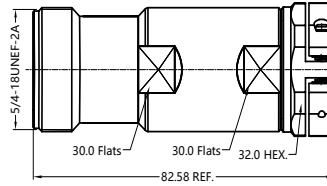


VH2150

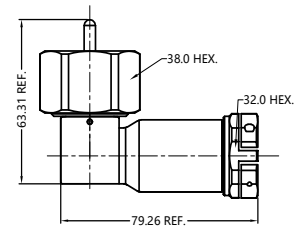
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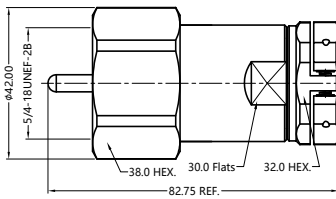
Type	LC Female	Code	CLF
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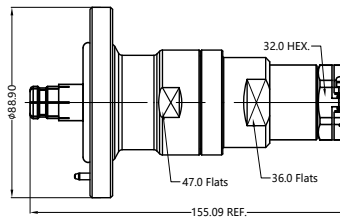
Type	LC Male RA	Code	ALM
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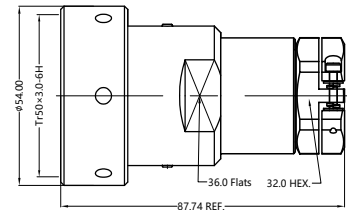
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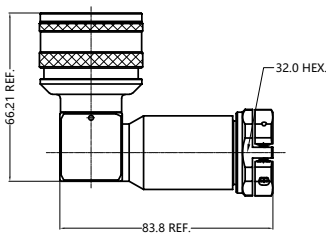
Type	1-5/8 EIA Male	Code	EIM
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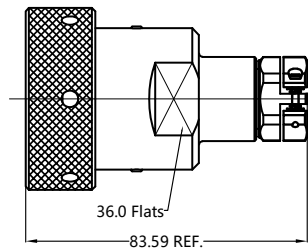
Type	13-30 Male	Code	130M
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Type	HPQD Male RA	Code	APM
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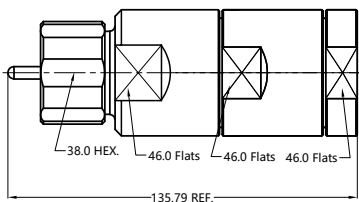


Type		Code	
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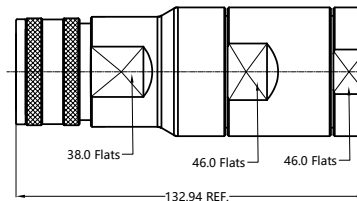


VH3050L-TPV

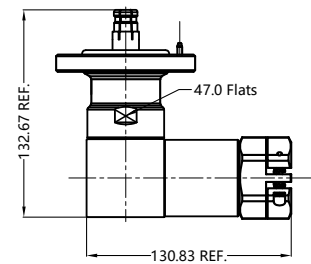
Type	LC Male	Code	CLM
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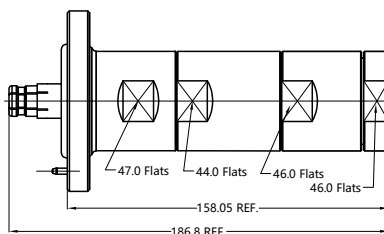
Type	HPQD Male	Code	HPM
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Type	1-5/8 EIA RA Male RA	Code	AEM
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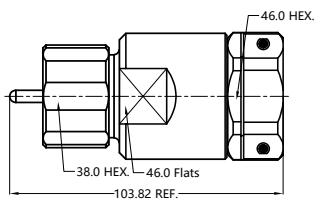


Type	1-5/8 EIA EIA Male	Code	EIM
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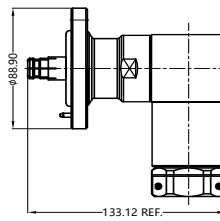


VH3050

Type	LC Male	Code	CLM
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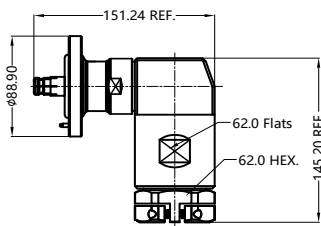


Type	1-5/8 EIA Male RA	Code	AEM
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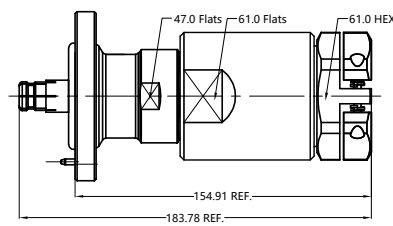


VH4000-TPV

Type	1-5/8 EIA Male RA	Code	AEM
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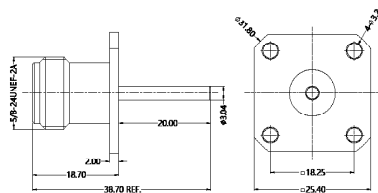


Type	1-5/8 EIA Male	Code	EIM
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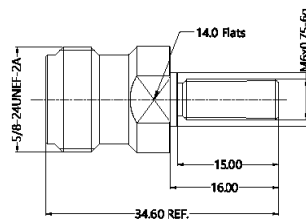


Thread-on Panel Connectors

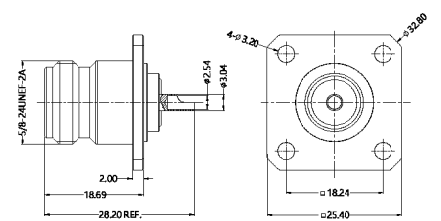
Type	N-Female 4 Hole Flange Mount Connector, L
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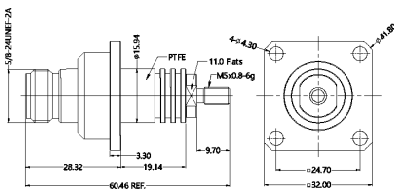
Type	N-Female Connector, B
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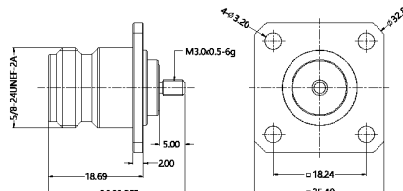
Type	N-Female 4 Hole Flange Mount Connector, M
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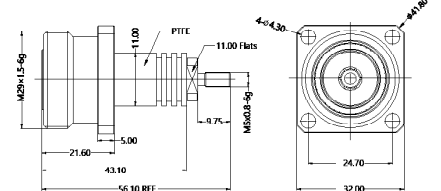
Type	N-Female 4 Hole Flange Mount Connector, N
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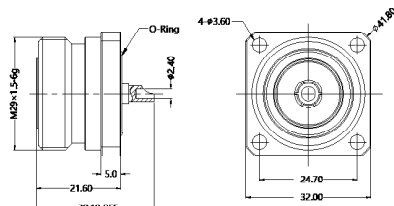
Type	N-Female 4 Hole Flange Mount Connector, S
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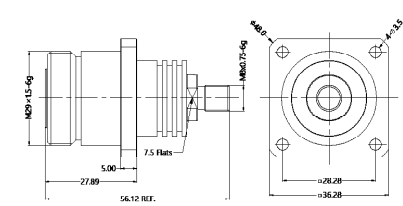
Type	7/16 Female 4 Hole Flange Mount Connector, A
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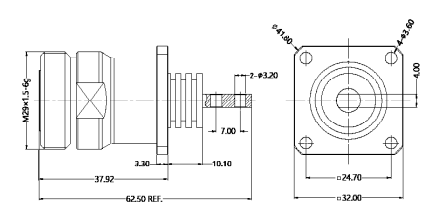
Type	7/16 Female 4 Hole Flange Mount Connector, B
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Type	7/16 Female 4 Hole Flange Mount Connector, H
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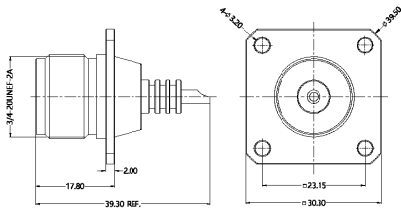


Type	7/16 Female 4 Hole Flange Mount Connector, J
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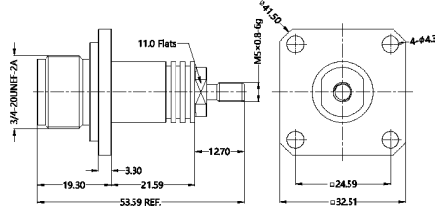
Type

HN Female 4 Hole Flange Mount Connector, A



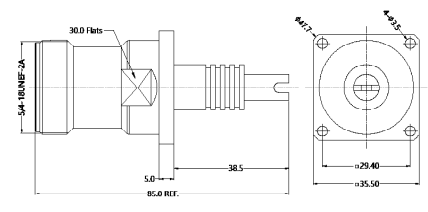
Type

HN Female 4 Hole Flange Mount Connector, B



Type

LC Female 4 Hole Flange Mount Connector, A



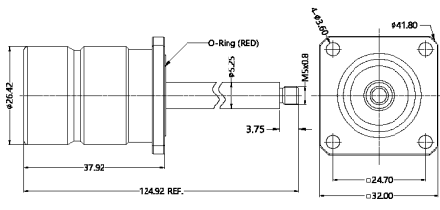
Quick-connect Panel Connectors

Type

C Male

Code

CM

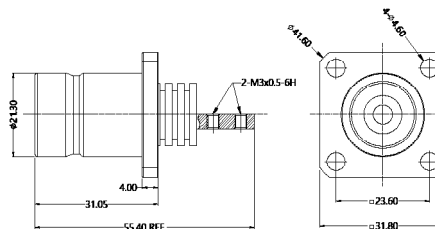


Type

QRM Male

Code

QRM

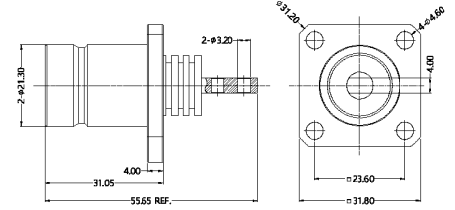


Type

QRM Male

Code

QRM

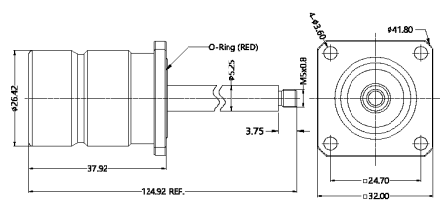


Type

HPQD Male

Code

HPM

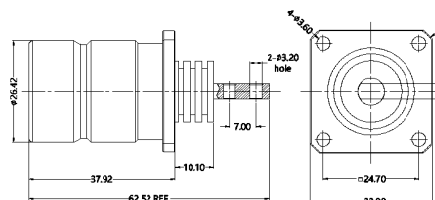


Type

HPQD Male

Code

HPM

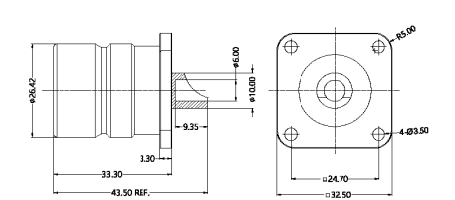


Type

HPQD Male

Code

HPM

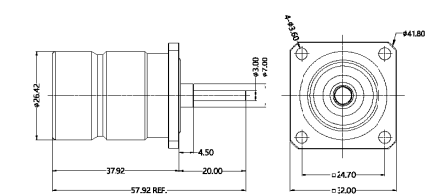


Type

HPQD Male

Code

HPM

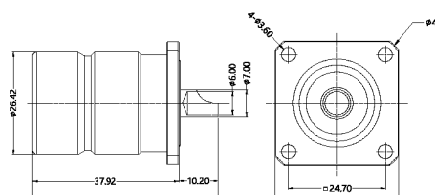


Type

HPQD Male

Code

HPM

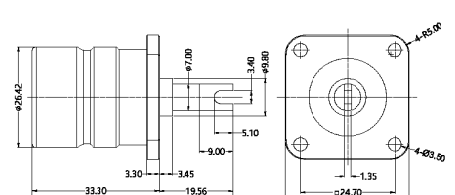


Type

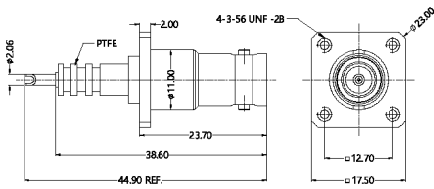
HPQD Male

Code

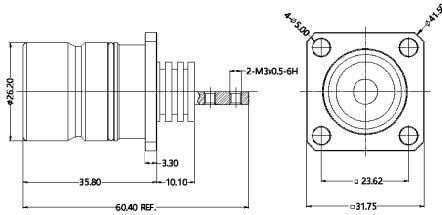
HPM



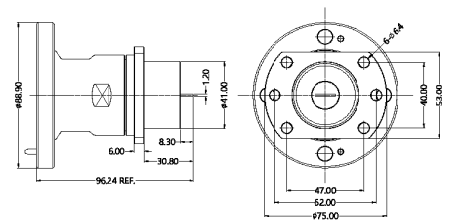
Type	HPQD Male	Code	HPM
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Type	SHF Male	Code	SHF
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Type	GQLF Male	Code	GQL
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Type	1-5/8 EIA EIA Male	Code	EIM
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