



DEUTSCH RR Series Filter Connectors

MIL-DTL-26482 SERIES 2



DEUTSCH RR Series connectors are medium-density, MIL-DTL-26482 Series 2 circular connectors using a bayonet coupling with visible mating indication. The bayonet coupling requires 1/3 turn to mate fully. Available with crimp contacts, PC tails, solder cups and headers, they feature various plating options available and numerous keying options.

SPECIFICATIONS

Environmental

- **Temperature Range:** -55°C to 125°C
- **Physical Shock:** Typical to EIA-364-27
- **Vibration:** Typical to EIA-364-28 test condition III
- **Fungus Resistance:** Based on MIL-STD-810
- **Fluid Immersion:** Typical as per MIL-DTL-26482 classes H, L and N (Table XXIX)
- **Salt Spray:** Typically based on EIA/ECA-364-26
- **Humidity:** Typically EIA-364-31 test method II
- **Durability:** 500 cycles per MIL-DTL-26482

Electrical

- **Grounded Line Resistance (Typ.):** 15 mΩ
- **Insulation Resistance (Typ.):** >5 GΩ
- **Dielectric Withstand (Typ.):** <5 μA
- **DWV:** up to 2000 VDC
- **Working Voltage:** up to 2000 VDC
- **Typical Test Specifications Used:**
 Mil-STD-810: Test Method Standard
 Mil-STD-202: Electrical & Electronic Component Parts
 RTCA DO-160: Test Procedures for Airborne Equipment
 EIA-364: Electrical Connector & Socket Test Procedures

Filtering

- **Capacitance Range:** 20 pF to 4 μF
- **Capacitance Tolerance:** Typically 20%
- **Unfiltered Line Cap (Typ.):** 15 pF
- **Filtering Topologies:** L, C, LC, CL, Pi, T, Double T

Transient protection available as per RTCA Publication DO 160 (see page 55).

MATING COMPATIBILITY

- MIL-DTL-26482 Series 2 connectors
- DEUTSCH RR/602 connectors

RELIABLE

- Three-point bayonet coupling
- 100% scoop proof
- RFI shell-to-shell continuity

VERSATILE

- Wide range of connector shell configurations
- Configurable filter topologies

DESIGNED FOR HARSH ENVIRONMENTS

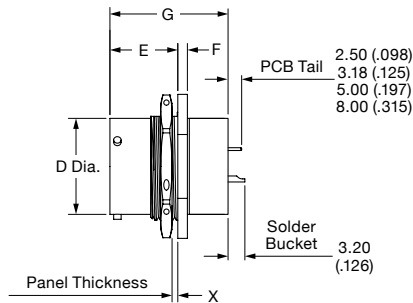
- Vibration and shock
- Temperature extremes
- High humidity
- Altitude
- Salt spray



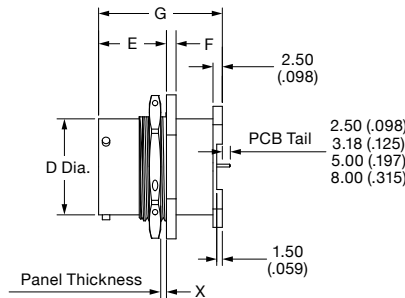
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MIL-DTL-26482 SERIES II

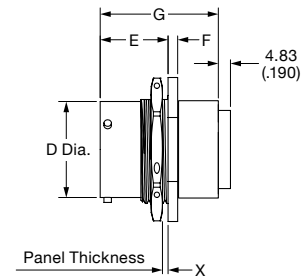
Jam Nut Receptacles



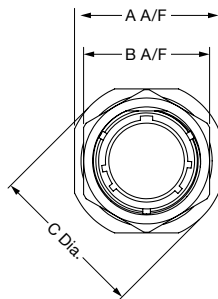
Single Flange



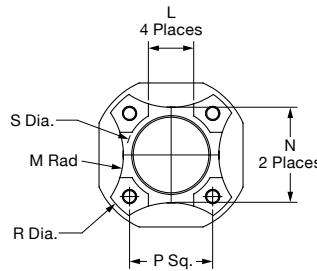
Double Flange



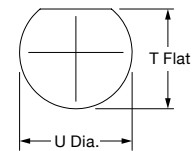
Single Flange, Crimp Contacts



Front View



Double Flange Footprint



Recommended Panel Cutout

Shell Size	A A/F	B A/F	C Dia. Max.	D Dia. Max.	E Max.	F Max.	G Max.			X Panel Thickness	L Ref.	M Rad Ref.	N Ref.	P Sq.	R Dia.	S Dia.	Mounting Dims	
							Single Flange	Double Flange	Crimp								T Flat	U Dia.
8	23.83 (0.938)	19.05 (0.750)	27.38 (1.078)	12.04 (0.474)						1.57 to 4.75 (0.062-0.187)	8.00 (0.315)	9.00 (0.354)	15.50 (0.610)	14.00 (0.551)	27.06 (1.065)	14.34 (0.565)	13.62 (0.536)	14.53 (0.572)
10	26.97 (1.061)	22.22 (0.875)	30.56 (1.203)	15.01 (0.591)						1.57 to 4.75 (0.062-0.187)	8.00 (0.315)	12.00 (0.472)	17.15 (0.675)	14.00 (0.551)	30.06 (1.183)	14.34 (0.565)	16.79 (0.661)	17.70 (0.697)
12	31.75 (1.250)	26.97 (1.062)	35.33 (1.391)	19.08 (0.751)	17.95 (0.707)	2.87 (0.113)	30.86 (1.215)	32.36 (1.274)	50.86 (2.002)	1.57 to 4.75 (0.062-0.187)	8.00 (0.315)	18.00 (0.709)	19.90 (0.783)	17.00 (0.669)	35.06 (1.380)	17.42 (0.686)	21.00 (0.826)	22.50 (0.886)
14	34.92 (1.374)	30.18 (1.188)	38.51 (1.516)	22.25 (0.876)						1.57 to 4.75 (0.062-0.187)	12.00 (0.472)	22.00 (0.866)	23.10 (0.909)	19.00 (0.748)	36.06 (1.420)	20.72 (0.816)	24.08 (0.948)	25.70 (1.012)
16	38.10 (1.500)	33.32 (1.312)	41.68 (1.641)	25.43 (1.001)						1.57 to 4.75 (0.062-0.187)	12.00 (0.472)	24.00 (0.945)	26.25 (1.033)	22.00 (0.866)	40.06 (1.577)	23.89 (0.941)	27.23 (1.072)	28.83 (1.135)
18	41.27 (1.624)	36.53 (1.438)	44.86 (1.766)	28.60 (1.126)						1.57 to 4.75 (0.062-0.187)	16.00 (0.630)	24.00 (0.945)	29.45 (1.159)	25.00 (0.984)	40.06 (1.577)	26.43 (1.041)	30.41 (1.197)	32.01 (1.260)
20	46.02 (1.812)	39.67 (1.562)	49.61 (1.953)	31.77 (1.251)						1.57 to 6.35 (0.062-0.250)	16.00 (0.630)	25.00 (0.984)	31.90 (1.256)	27.00 (1.063)	44.06 (1.735)	29.58 (1.165)	33.58 (1.322)	35.18 (1.385)
22	49.23 (1.938)	42.88 (1.688)	52.78 (2.078)	34.95 (1.376)	19.61 (0.772)	3.76 (0.148)	32.38 (1.275)	33.88 (1.334)	52.38 (2.062)	1.57 to 6.35 (0.062-0.250)	16.00 (0.630)	27.00 (1.063)	38.10 (1.500)	31.00 (1.221)	51.06 (2.010)	35.83 (1.411)	36.95 (1.455)	38.36 (1.510)
24	52.37 (2.062)	46.02 (1.812)	55.96 (2.203)	38.13 (1.501)						1.57 to 5.56 (0.062-0.219)	16.00 (0.630)	27.00 (1.063)	38.10 (1.500)	31.00 (1.221)	51.06 (2.010)	35.83 (1.411)	39.93 (1.572)	41.53 (1.635)

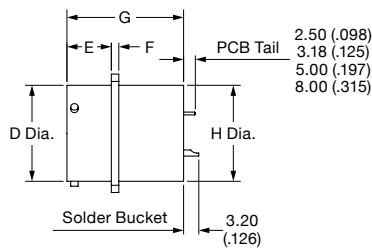
See page 35 for insert arrangements and back cover for configuration sheet.



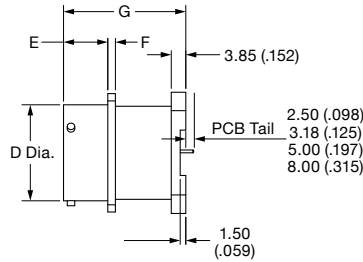
DEUTSCH RR Series Filter Connectors

MIL-DTL-26482 SERIES II

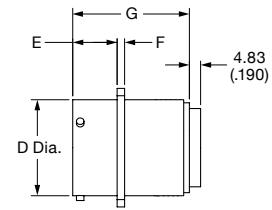
Square Flange Receptacles



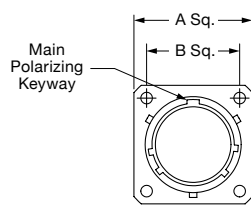
Single Flange



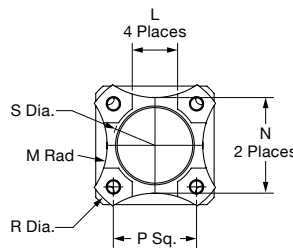
Double Flange



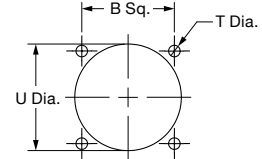
Single Flange, Crimp Contacts



Front View



Double Flange Footprint



Square Flange Mounting

Shell Size	A Sq. Max.	B Sq.	D Dia. Max.	E Max.	F Max.	Length G Max.			H Dia. Max.	L Ref.	M Rad Ref.	N Ref.	P Sq.	R Dia.	S Dia.	Mounting Holes	
						Single Flange	Double Flange	Crimp								T Dia.	U Dia. Max.
8	21.03 (0.828)	15.09 (0.594)	12.04 (0.474)						15.09 (0.594)	8.00 (0.315)	9.00 (0.354)	15.50 (0.610)	14.00 (0.551)	27.06 (1.065)	14.34 (0.565)		14.55 (0.573)
10	24.23 (0.954)	18.26 (0.719)	15.01 (0.591)						15.09 (0.594)	8.00 (0.315)	12.00 (0.472)	17.15 (0.675)	14.00 (0.551)	30.06 (1.183)	14.34 (0.565)		17.53 (0.690)
12	26.59 (1.047)	20.62 (0.812)	19.08 (0.751)	11.73 (0.462)	1.98 (0.078)	30.86 (1.215)	32.36 (1.274)	50.86 (2.002)	18.26 (0.719)	8.00 (0.315)	18.00 (0.709)	19.90 (0.783)	17.00 (0.669)	35.06 (1.380)	17.42 (0.686)		22.07 (0.869)
14	28.98 (1.141)	23.01 (0.906)	22.25 (0.876)						21.44 (0.844)	12.00 (0.472)	22.00 (0.866)	23.10 (0.909)	19.00 (0.748)	36.06 (1.420)	20.72 (0.816)	3.05 (0.120)	25.25 (0.994)
16	31.34 (1.234)	24.61 (0.969)	25.43 (1.001)						24.61 (0.969)	12.00 (0.472)	24.00 (0.945)	26.25 (1.033)	22.00 (0.866)	40.06 (1.577)	23.89 (0.941)		28.40 (1.118)
18	33.73 (1.328)	26.97 (1.062)	28.60 (1.126)						27.38 (1.078)	16.00 (0.630)	24.00 (0.945)	29.45 (1.159)	25.00 (0.984)	40.06 (1.577)	26.43 (1.041)		31.57 (1.243)
20	36.91 (1.453)	29.36 (1.156)	31.77 (1.251)	14.91 (0.587)					30.56 (1.203)	16.00 (0.630)	25.00 (0.984)	31.90 (1.256)	27.00 (1.063)	44.06 (1.735)	29.58 (1.165)		34.75 (1.368)
22	40.08 (1.578)	31.75 (1.250)	34.95 (1.376)		2.79 (0.110)	32.39 (1.275)	33.89 (1.334)	52.38 (2.062)	33.73 (1.328)	16.00 (0.630)	27.00 (1.063)	35.05 (1.379)	29.00 (1.142)	46.06 (1.813)	32.76 (1.290)		37.92 (1.493)
24	43.26 (1.703)	34.93 (1.375)	38.13 (1.501)	15.75 (0.620)					36.91 (1.453)	16.00 (0.630)	27.00 (1.063)	38.10 (1.500)	31.00 (1.221)	51.06 (2.010)	35.83 (1.411)	3.74 (0.147)	41.15 (1.620)

See page 35 for insert arrangements and back cover for configuration sheet.

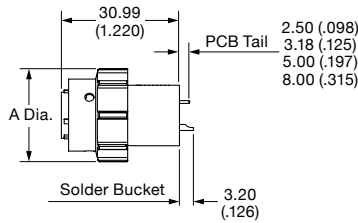


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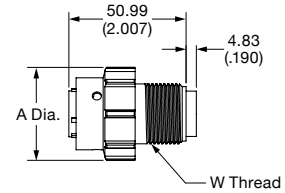
MIL-DTL-26482 SERIES 2

Plugs

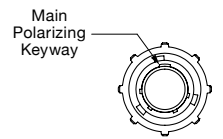
Shell Size	A Dia.	W Thread Class 2A
8	22.41 (0.882)	0.5000-20 UNF
10	25.59 (1.007)	0.6250-24 UNEF
12	28.78 (1.132)	0.7500-20 UNEF
14	31.94 (1.257)	0.8750-20 UNEF
16	36.69 (1.447)	1.0000-20 UNEF
18	39.46 (1.553)	1.0625-18 UNEF
20	42.41 (1.677)	1.1875-18 UNEF
22	45.40 (1.787)	1.3125-18 UNEF
24	48.57 (1.912)	1.4375-18 UNEF



PCB/Solder Bucket Contacts



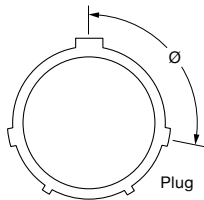
Crimp Contacts



Front View

Keying Options

(Plug Mating Face Shown)



Shell Size	Key Position (Degrees)				
	N	B	C	E	G
8	105	—	—	118	82
10	105	85	125	115	85
12	105	89	121	115	85
14	105	91	119	75	120
16	105	93	117	75	120
18	105	95	115	75	120
20	105	95	115	75	120
22	105	97	113	75	120
24	105	97	113	75	120

See page 35 for insert arrangements and back cover for configuration sheet.



DEUTSCH RR Series Filter Connectors MIL-DTL-26482 SERIES 2

Insert Arrangements

- Filter Connector Series: RR
- Industry Specification: MIL-DTL-26482 Series II
- Insert Arrangement Specification: MIL-STD-1651

Shell Size	Arrangement	Contact Size and Type				
		20	16	14	12	Coax
8	8-33	3	—	—	—	—
	8-98	3	—	—	—	—
10	10-6	6	—	—	—	—
	10-98	6	—	—	—	—
12	12-3	—	3	—	—	—
	12-10	10	—	—	—	—
	12-8	8	—	—	—	—
14	14-4	—	—	—	4	—
	14-5	—	5	—	—	—
	14-12	8	4	—	—	—
	14-15	14	1	—	—	—
	14-18	18	—	—	—	—
	14-19	19	—	—	—	—
16	16-8	—	8	—	—	—
	16-23	22	1	—	—	—
	16-26	26	—	—	—	—
	16-99	21	2	—	—	—
18	18-8	—	—	—	8	—
	18-11	—	11	—	—	—
	18-30	29	1	—	—	—
	18-32	32	—	—	—	—
20	20-16	—	16	—	—	—
	20-39	37	2	—	—	—
	20-41	41	—	—	—	—
22	22-7	—	—	—	—	7
	22-12	—	—	—	12	—
	22-21	—	21	—	—	—
	22-36	36	—	—	—	—
	22-41	27	14	—	—	—
	22-55	55	—	—	—	—
24	24-19	—	—	—	19	—
	24-31	—	31	—	—	—
	24-61	61	—	—	—	—
	24-100	—	—	—	—	10