Applicable	e stai	ndard											
Operating temperature ra		rature ran	nge -55°		5°C to + 105°C (Note 1)		Storage temperature range		-10°C to + 60°C (Note 3)				
Rating	Operating humidity range			000/ 1 000/ (N 1 0)		Storage humidity	orage midity range		40% to 70% (Note				
	Applic	Applicable connector 2		DF60A-2S-10. 16C		Current(*1)		45 A					
					DF60-*SCFA	Voltage		1000V_AC/DC					
Rated volta			ed volta	ge Rated current			Overvoltage category IP-			degree			
		OOV AC/DC		65A(At ambient temp. 25°C) (No									
			OOV AC/DC		See above(*1)(Temp. rise up 30								
TÜV 600V			OV AC/DC See above (*1							P00			
					Specifica	ations	3						
Į:	tem				Test method			Re	equirements		QT	AT	
Constructi	on												
General examination			Visually and by measuring instrument.				According to drawing.				Х	Х	
Marking			Confirmed visually.								Χ	Χ	
Electric ch		eristics											
Contact resista Millivolt level n			DC6V MAX, 1A					MAX.			Х	_	
Insulation resistance			1000V DC.				1000MΩ MIN.				Х	_	
Voltage proof			3000V AC for 1 min.				No flashover or breakdown.				Х	_	
Mechanica	al cha	racteris	stics										
Mechanical of	operati	on	30 time	es inser	tions and extractions.			act resistance:			Х		
\ /'la a a C a a								② No damage, crack or looseness of parts.				_	
of			of 98 m/s ² , at 2 h, for 3 directions.				No electrical discontinuity of 1µs. No damage, crack or looseness of parts.				Х	_	
Shock 490 m.			490 m/s ² d	² duration of pulse 11 ms at 3 times for 3 directions.			 No electrical discontinuity of 1μs. N o damage, crack or looseness of parts. 			Х	_		
Environme	ental	charact	eristics										
Damp heat	,		Exposed	at 40 =	± 2 °c, 90 to 95 %, 96 h.		_	tact resistan	==		Х		
(Steady state)								② Insulation resistance: 1000MΩ MIN. ③ No damage, crack or looseness of parts.				_	
Rapid change of Tempe			Temperatu	perature -55°C→ +85°C			① Contact resistance: 2mΩ MAX.						
temperature	-			Time 30min→ 30min					② Insulation resistance: $1000M_{\Omega}$ MIN.				
			Under 25 cycles. (The transferring time of the tank is 2-3 min)					③ No damage, crack or looseness of parts					
			-	-	om temperature for 1-2h.)								
(After leavi			Exposed	at 105 ± 2°C, 250h			① Contact resistance: 2mΩ MAX.				Χ	_	
			(After leaving the room temperature for 1-2h.) ①Solder bath method 2 Solder temperature : 260°C for					 Insulation resistance: 1000MΩ MIN. No damage, crack or looseness of parts Such as impaired function ,no deformation of case of excessive looseness of the terminals. 					
												_	
			Immersion,duration: 10 sec. ②Manual soldering					2					
				_	nperature : 350±10°C								
				g time : 5									
,				ength on contact. at solder temperature,			Coldar shall so or a minimum of						
				for insertion duration, 5sec.			Solder shall cover a minimum of 95 % of the surface being immersed.				Х	_	
Remarks Note1: Include	the tem	nerature i	ising by cu	rent									
Note2: No con		-	ionig by cui										
			•	•	r unused products before mount and humidity range is applied for		orage du	ring transporta	ation.				
Cour	nt		Descript	ion of re	evisions	Desig	gned		Checked		Date		
A 4			DIS-	H-00005	5418	TS. MI			SZ. ONO	+		20191022	
Unless oth	erwise	specific	d, refer t	o IEC (60512.			Approved		A	2015	1128	
								Checked	TS. FUKUSHII	MA	2015	1128	
								Designed	TS. KUMAZAW	IA	2015	1128	
								Drawn	TS. KUMAZAW	IA .	2015	1128	

ELC-338974-27-00

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DF60-2P-10. 16DSA (27)

CL680-3005-8-27

Drawing no.

Part no.

Code no.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

Specification sheet

Hirose electric co., ltd.

(Note 4)Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.

(Note 5) Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25°C. 2

The value of rated current differs depending on the ambient temperature.

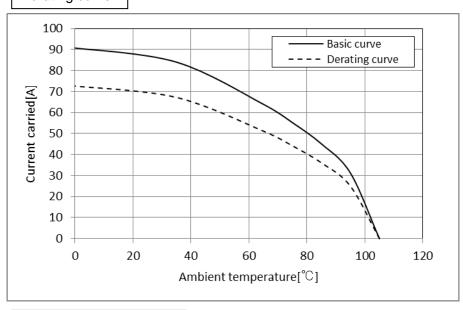
It is recommended to use the product within the derating curve zone.

(Note 6) Measurement method of derating curve is shown below.

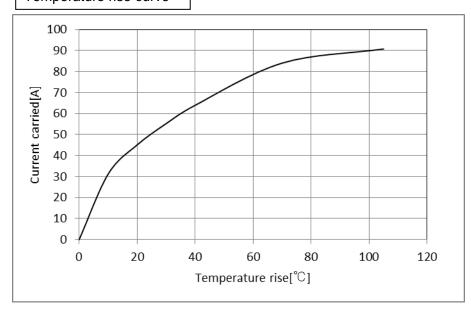
- Test specimen:Unused DF60-2P-10.16DS(27).
 Unused DF60-2S-10.16C
 Unused DF60-8SCFA
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20766)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	Drawin	g no.	ELC-338974-27-00			
HS.	Specification sheet	Part no.	DF60-2P-10. 16DSA (27)				
	Hirose electric co., ltd.	Code no.	CL680	0-3005-8-27	A	2/2	